



TEMPEST FILTERS



TEMPEST FILTERS
with builtin
HEMP PROTECTION
E1 / E2 Pulses



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Standard TEMPEST Filters:

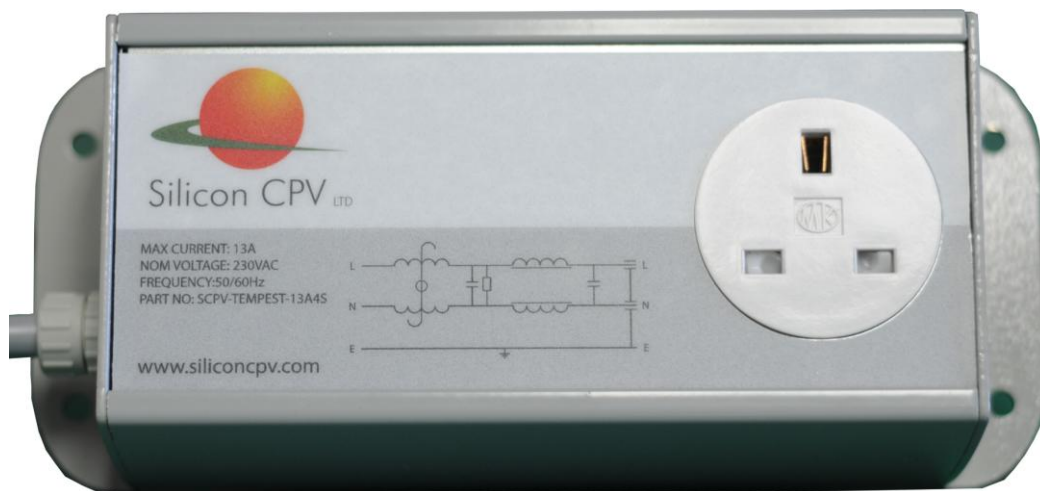
SCPV - TEMPEST Pluggable Filter - 6A1S

Silicon CPV's 1 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **6 Amps** under single phase operating voltage conditions.



Description

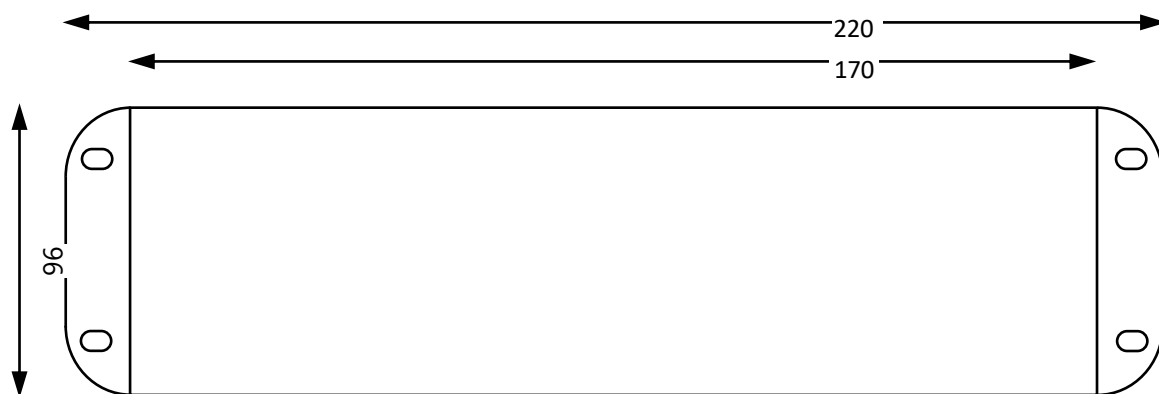
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **6A BS1363 3 pin plug input & 1 socket outlet**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 6A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	6A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

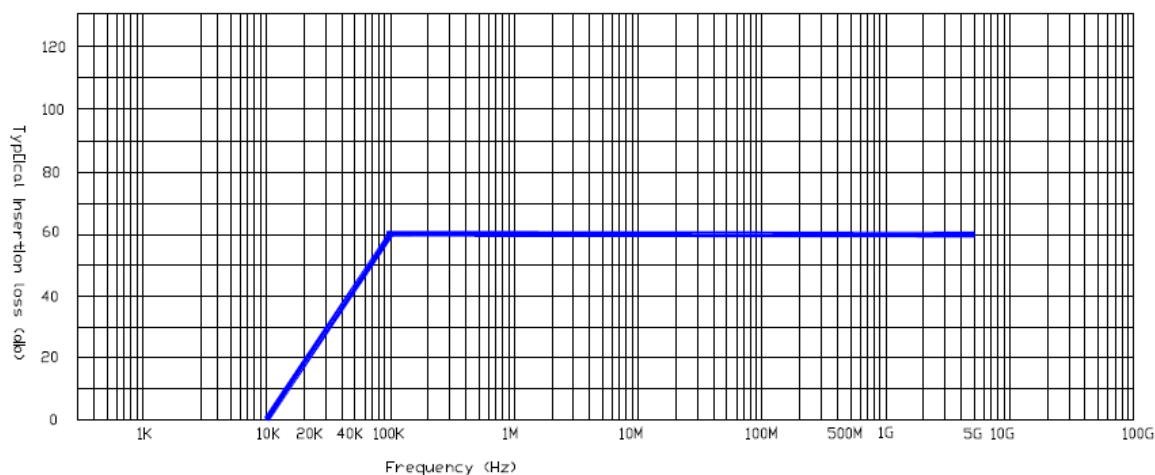
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 6A1S CP&F Part No: SCPVTEMPEST6A1S	1 x BS1363 Socket, Maximum 6A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 6A2S

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **6 Amps** under single phase operating voltage conditions.



Description

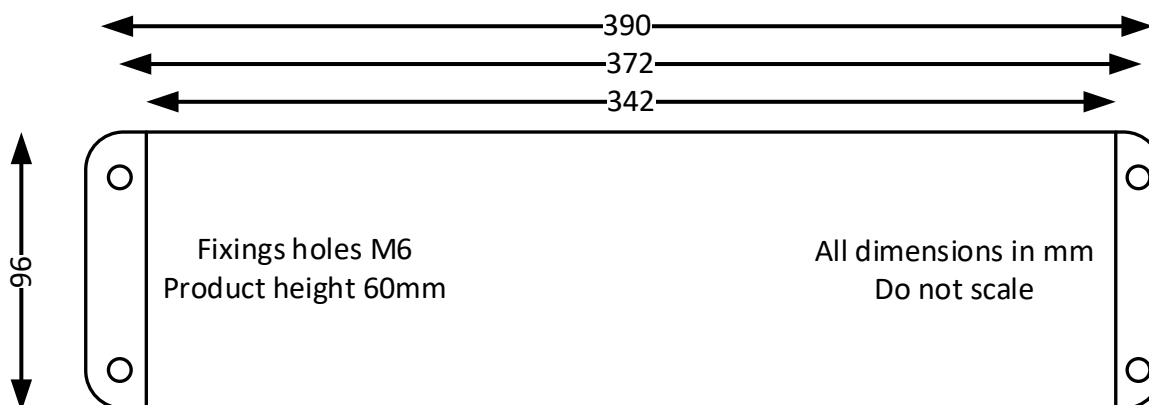
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **6A BS1363 3 pin plug input** & 2 socket outlet
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 6A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

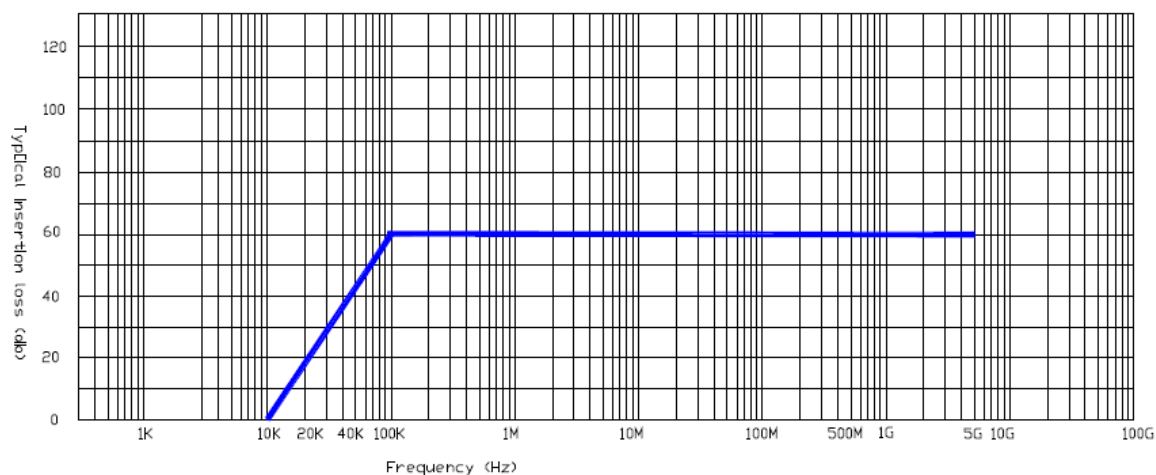
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	6A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 6A2S CP&F Part No: SCPVTEMPEST6A2S	2 x BS1363 Socket, Maximum 6A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 6A2S -With Australian

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **6 Amps** under single phase operating voltage conditions.



Description

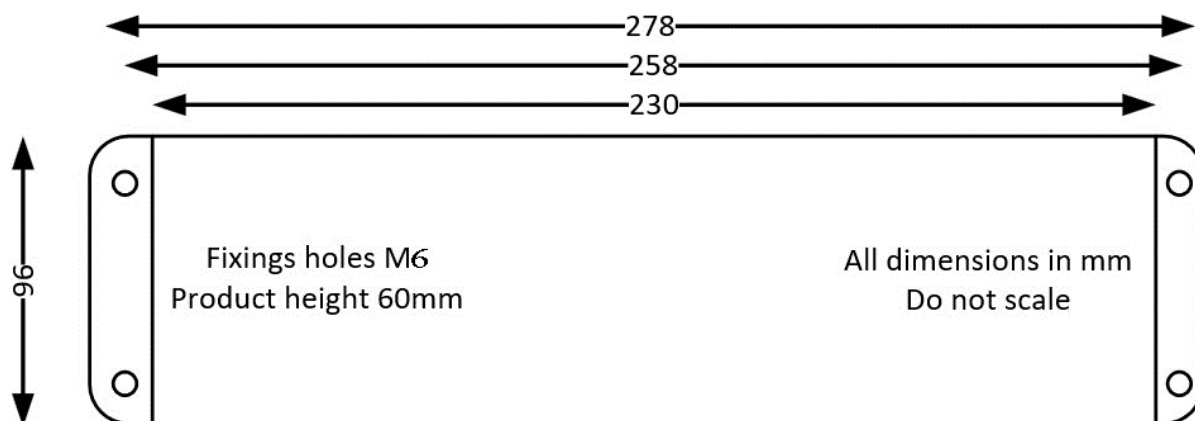
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **6A 3 Pin IP20 Australian AS3112 plug input & 2 x Australian round cover, 6A, 250V, IP44 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 6A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

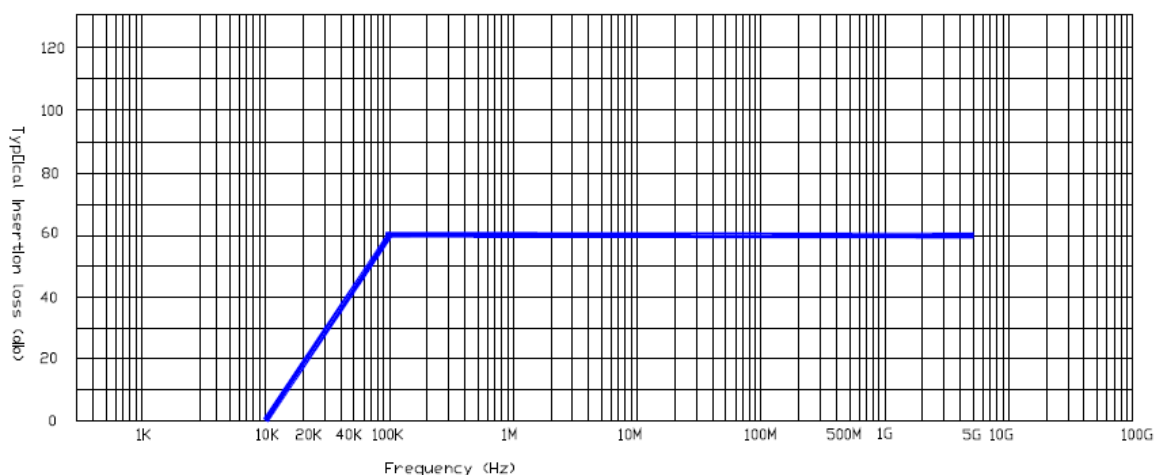
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	6A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 6A2S-AU CP&F Part No: SCPVTEMPEST6A2SAU	2 x Australian Sockets, Maximum 6A Single Phase 230V Pluggable Tempest Filter with 6A Australian AS3112 Plug

SCPV - TEMPEST Pluggable Filter - 10A1S-AU -With 10A Australian AS3112 Plug

Silicon CPV's 1 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **10 Amps** under single phase operating voltage conditions.



Description

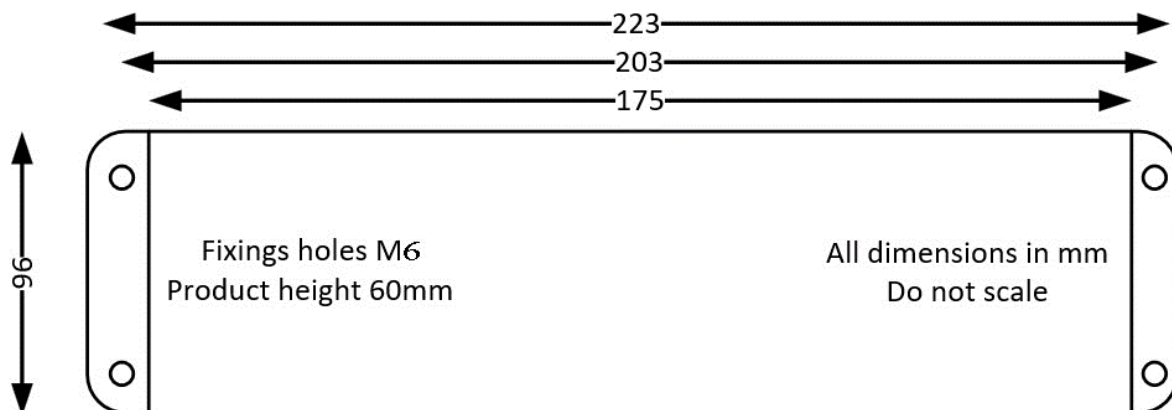
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **10A 3 Pin IP20 Australian AS3112 plug input & 1 x Australian round cover, 10A, 250V, IP44 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 10A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

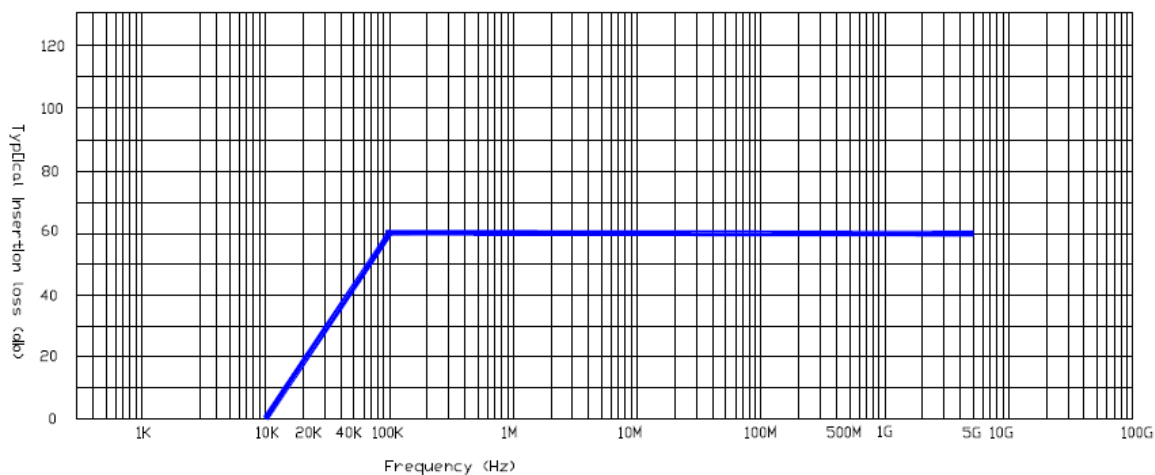
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	10A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 10A1S-AU CP&F Part No: SCPVTEMPEST10A1SAU	1 x Australian Sockets, Maximum 10A Single Phase 230V Pluggable Tempest Filter with 10A Australian AS3112 Plug

SCPV - TEMPEST Pluggable Filter - 10A2S-AU -With 10A Australian AS3112 Plug

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **10 Amps** under single phase operating voltage conditions.



Description

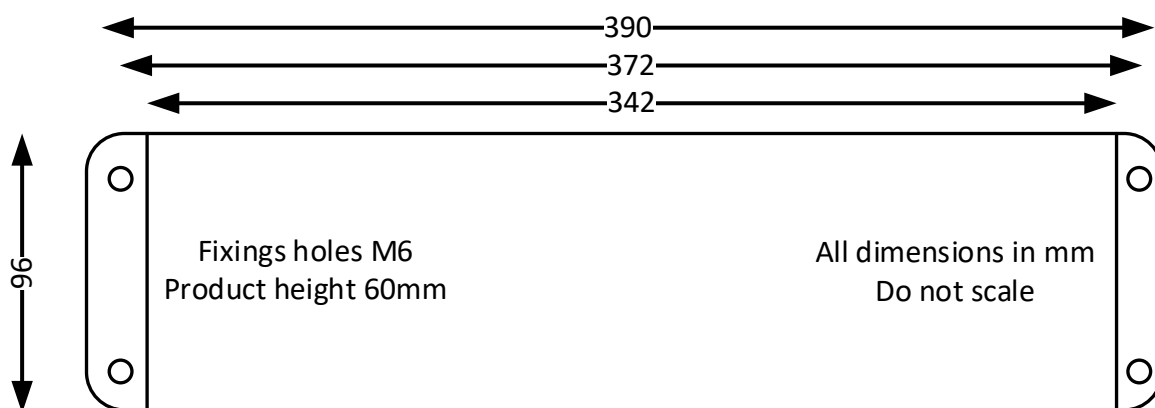
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **10A 3 Pin IP20 Australian AS3112 plug input & 2 x Australian round cover, 10A, 250V, IP44 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 10A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

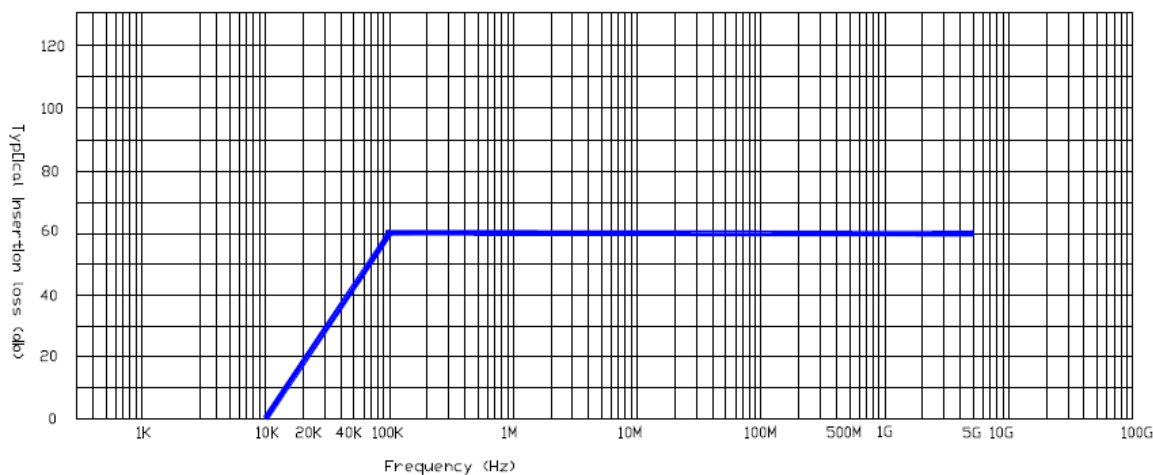
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	10A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 10A2S-AU CP&F Part No: SCPVTEMPEST10A2SAU	2 x Australian Sockets, Maximum 10A Single Phase 230V Pluggable Tempest Filter with 10A Australian AS3112 Plug

SCPV - TEMPEST Pluggable Filter - 10A4S-AU -With 10A Australian AS3112 Plug

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **10 Amps** under single phase operating voltage conditions.



Description

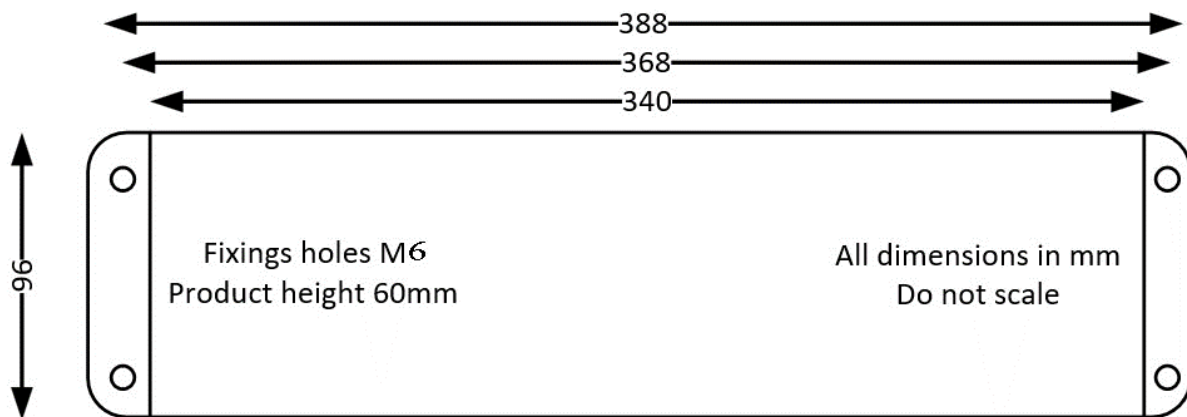
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **10A 3 Pin IP20 Australian AS3112 plug input & 4 x Australian round cover,10A,250V, IP44 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 10A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

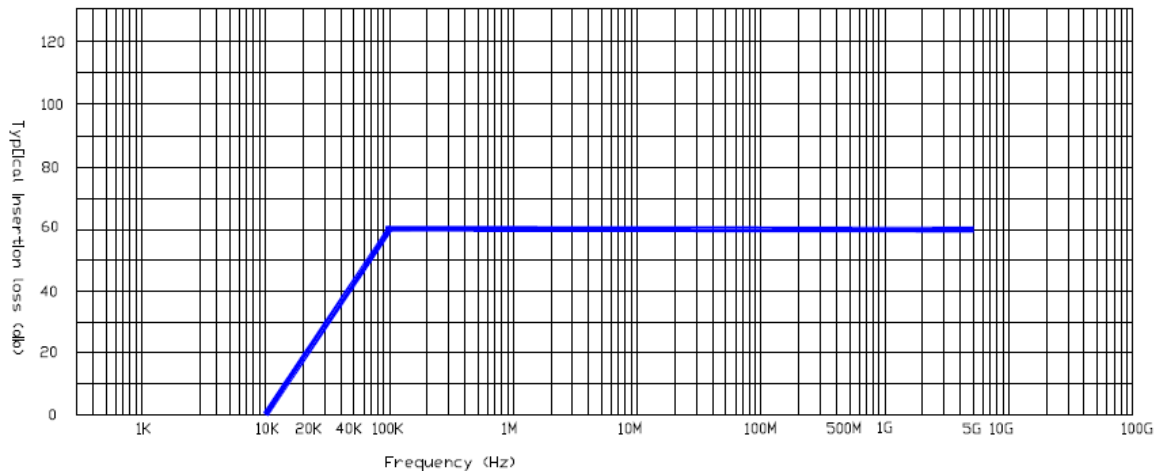
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	10A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 10A4S-AU CP&F Part No: SCPVTEMPEST10A4SAU	4 x Australian Sockets, Maximum 10A Single Phase 230V Pluggable Tempest Filter with 10A Australian Plug

SCPV - TEMPEST Pluggable Filter - 10A6S-AU -With 10A Australian AS3112 Plug

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **10 Amps** under single phase operating voltage conditions.



Description

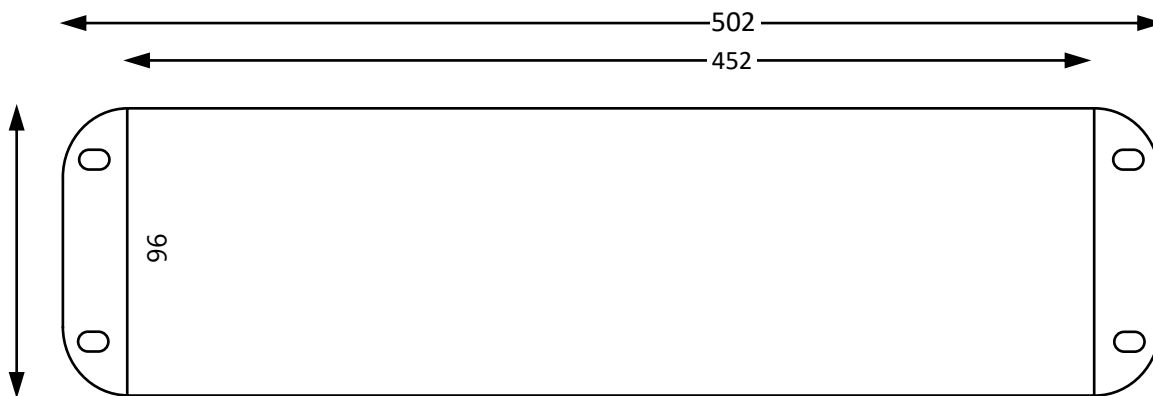
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **10A 3 Pin IP20 Australian AS3112 plug input & 6 x Australian round cover, 10A, 250V, IP44 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 10A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	10A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

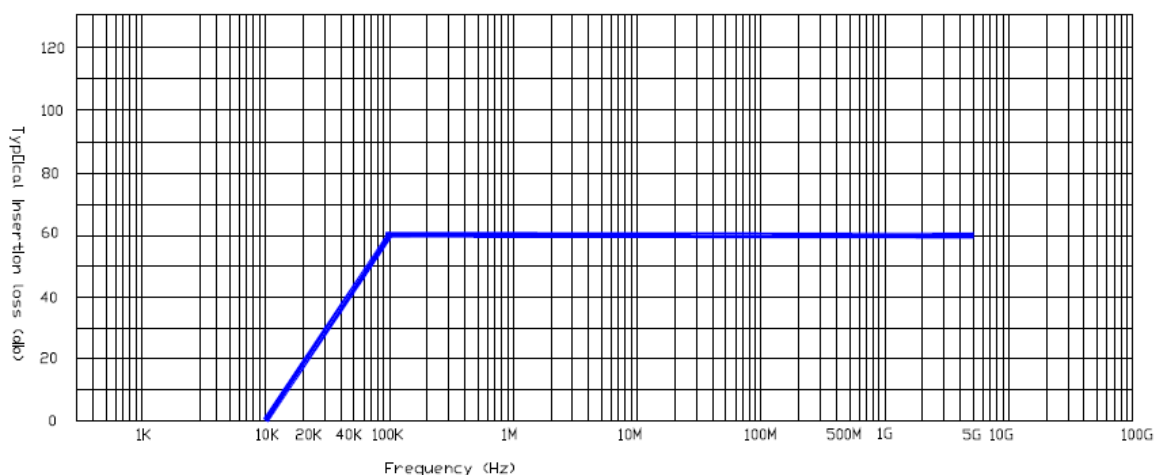
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 10A6S-AU CP&F Part No: SCPVTEMPEST10A6SAU	6 x Australian Sockets, Maximum 10A Single Phase 230V Pluggable Tempest Filter with 10A Australian AS3112 Plug

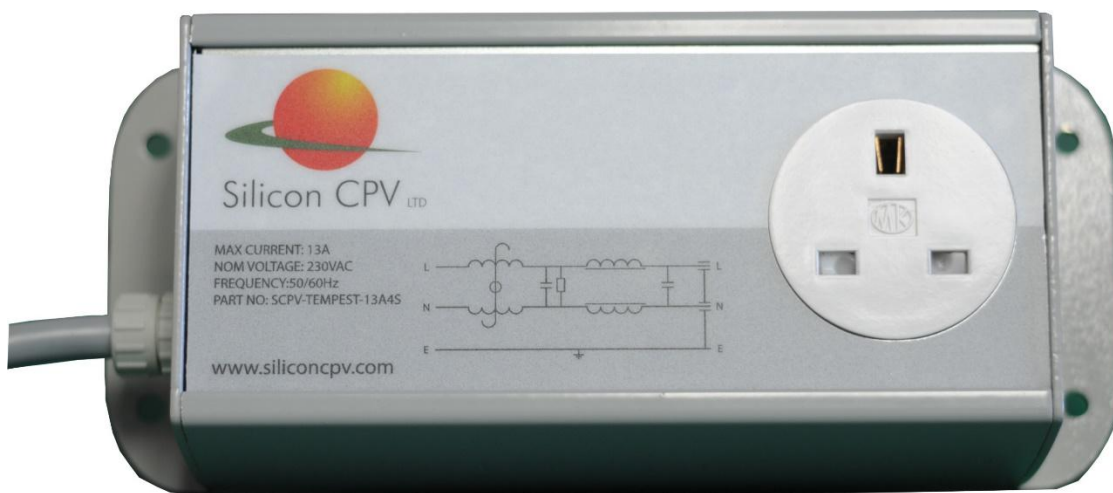
SCPV - TEMPEST Pluggable Filter - 13A1S

Silicon CPV's 1 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **13 Amps** under single phase operating voltage conditions.



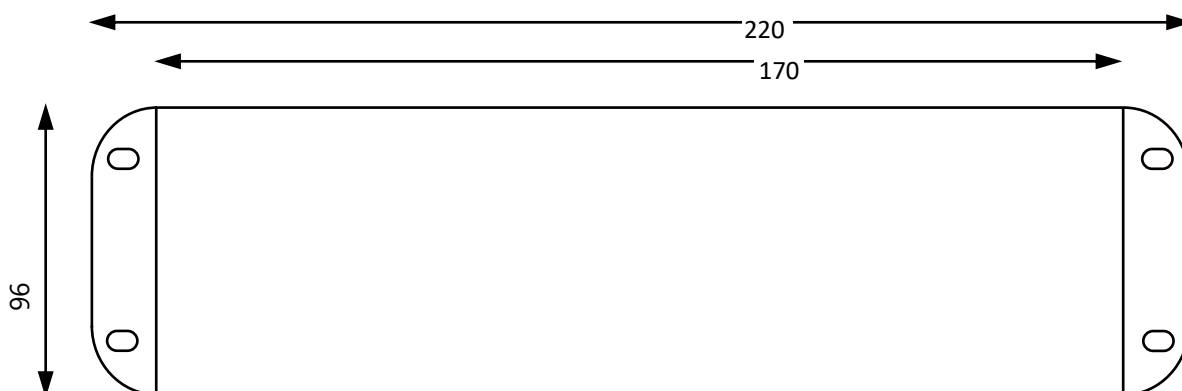
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 1 socket outlet**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	13A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

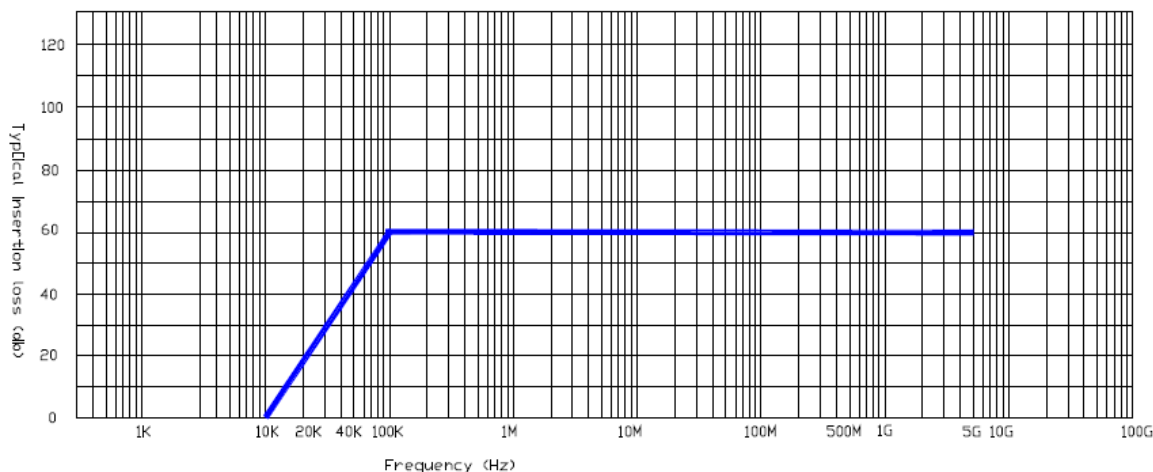
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 13A1S CP&F Part No: SCPVTEMPEST13A1S NATO No: 5915-99-358-6375	1 x BS1363 Socket, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 13A2S

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 13 Amps under single phase operating voltage conditions.



Description

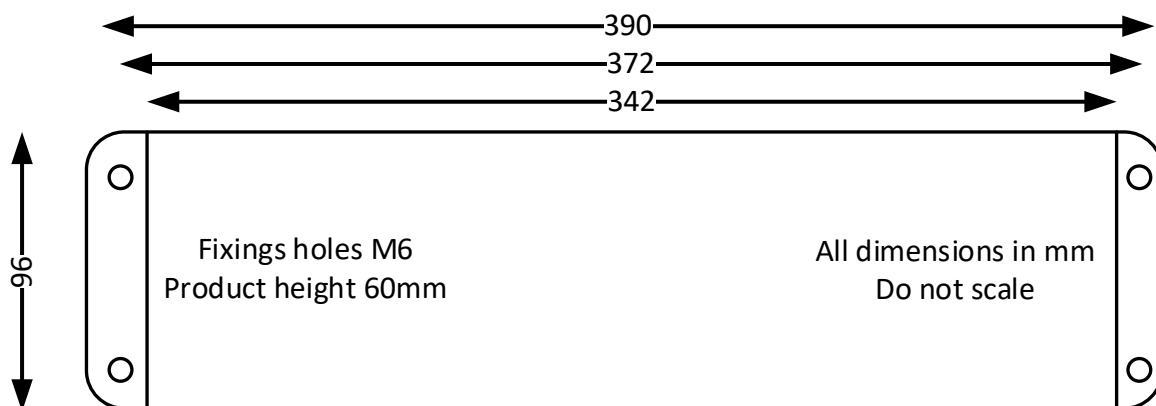
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 2 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

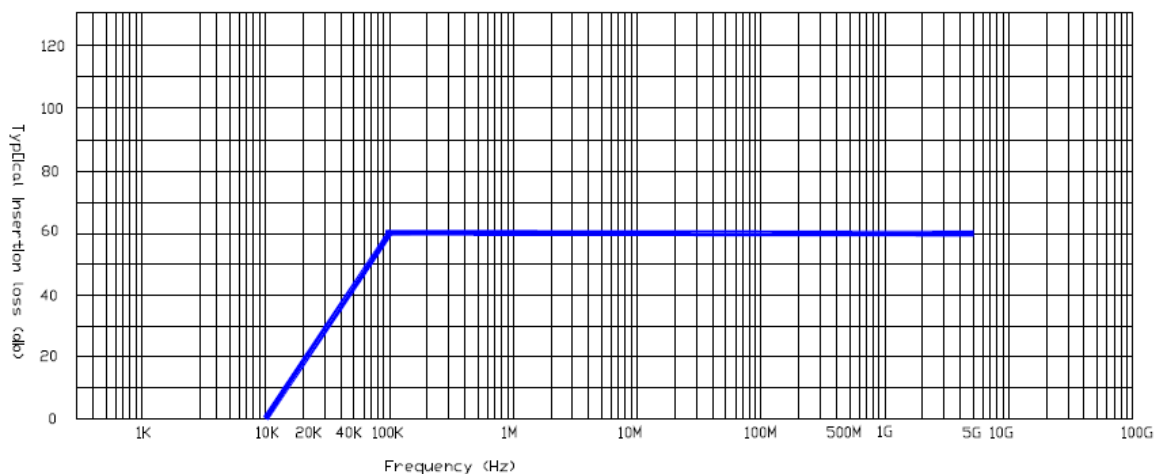
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	13A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 13A2S CP&F Part No: SCPVTEMPEST13A2S NATO NO: 5915-99-217-3439	2 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 13A4S

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **13 Amps** under single phase operating voltage conditions.



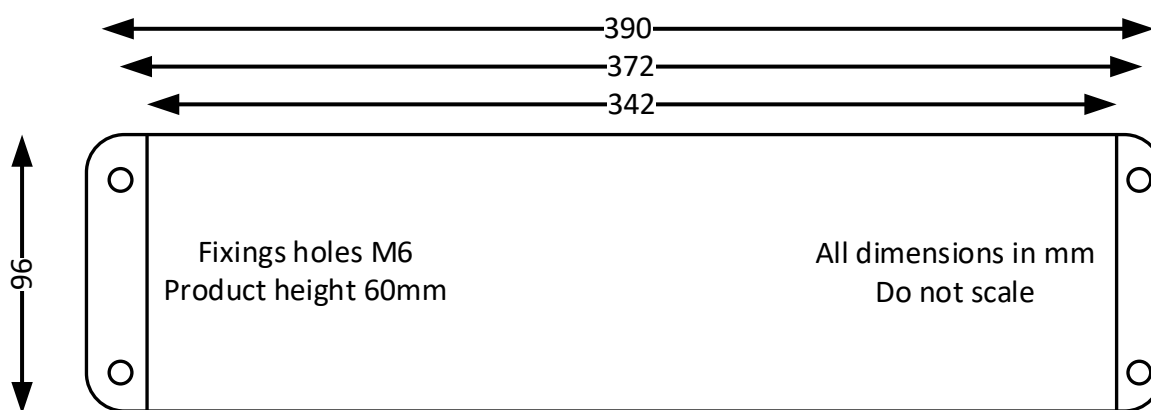
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 4 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

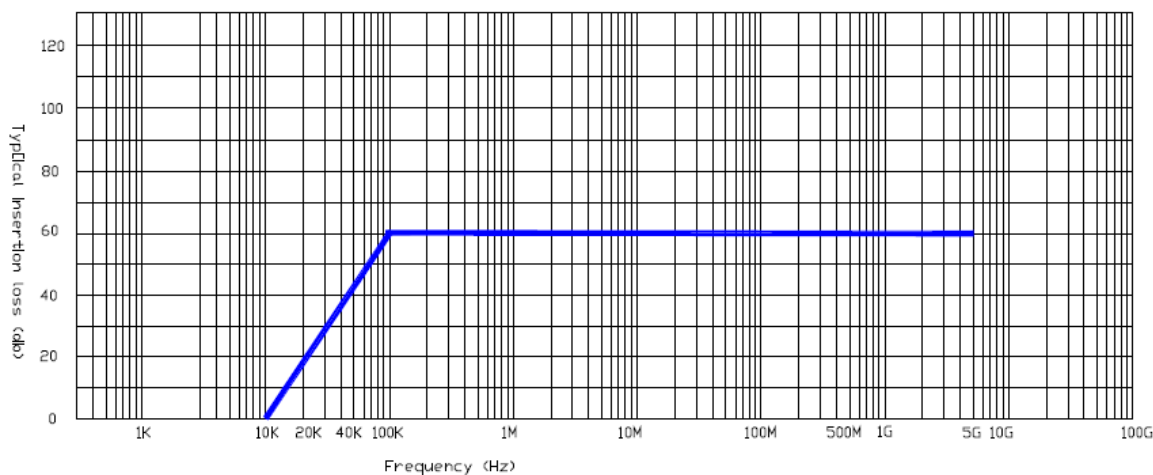
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	13A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 13A4S CP&F Part No: SCPVTEMPEST13A4S NATO No: 5915-99-577-5313	4 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 13A6S

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 13 Amps under single phase operating voltage conditions.



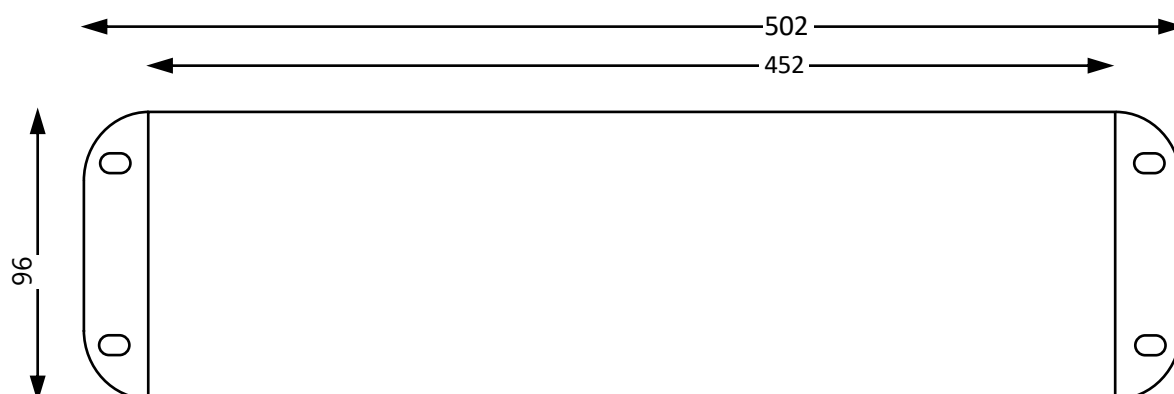
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- 13A BS1363 3 pin plug input & 6 x BS1363 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	13A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

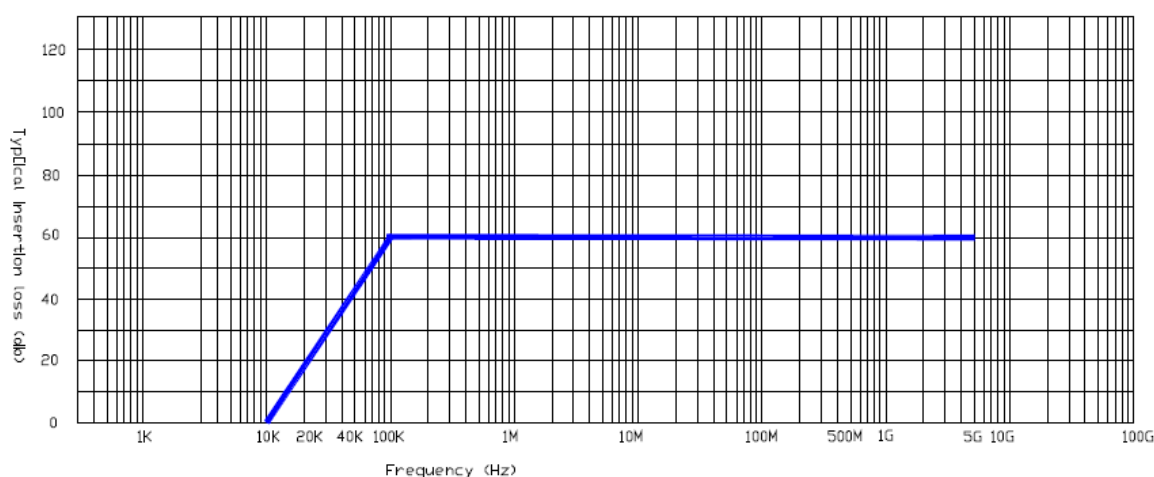
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 13A6S CP&F Part No: SCPVTEMPEST13A6S NATO No: 5915-99-296-4022	6 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

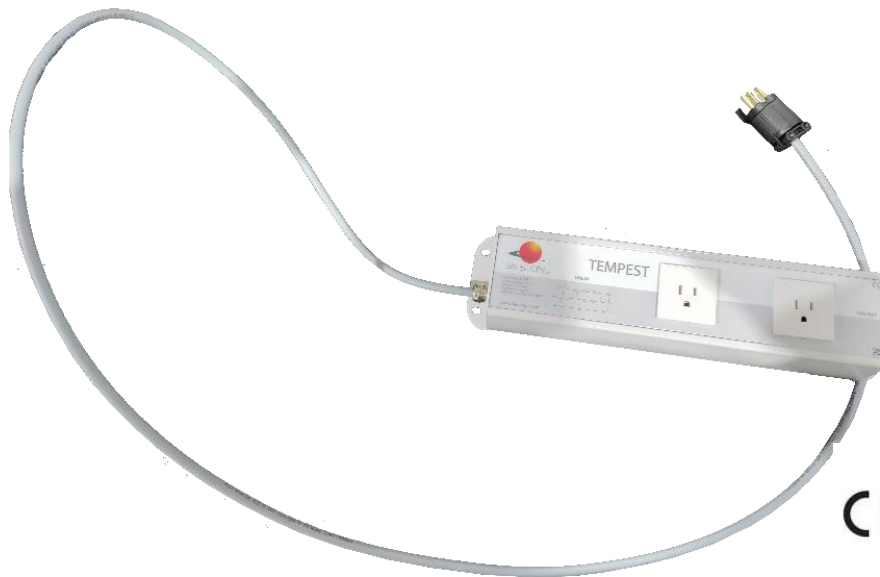
SCPV - TEMPEST Pluggable Filter - 15A2S - USA

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 15 Amps under single phase operating voltage conditions.



Description

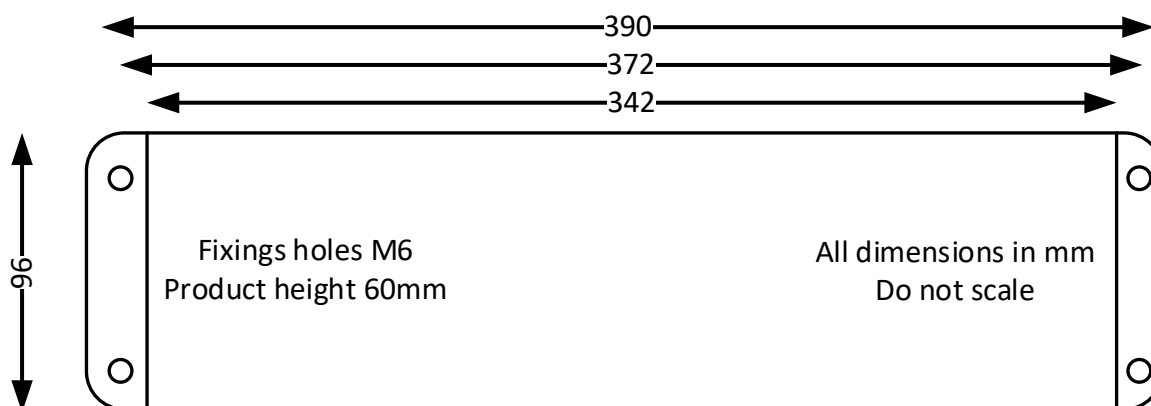
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **15A Type B (American) 3 pin plug input & 2 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 15A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

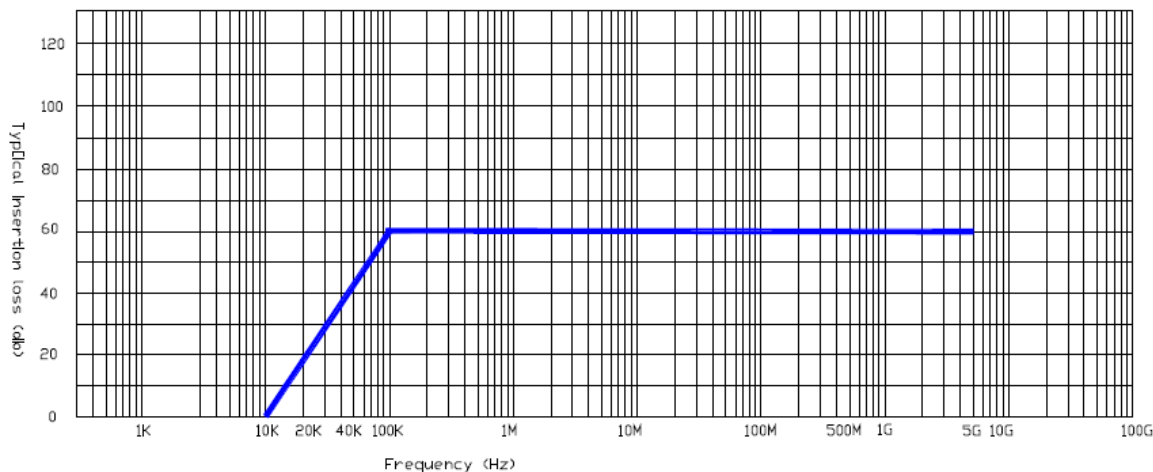
Rated Voltage	120V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	15A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 15A2S - USA CP&F Part No: SCPVTEMPEST15A2S	2 x Type B (American) Sockets, Maximum 15A Single Phase 120V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 15A6S -With Australian

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **15 Amps** under single phase operating voltage conditions.



Description

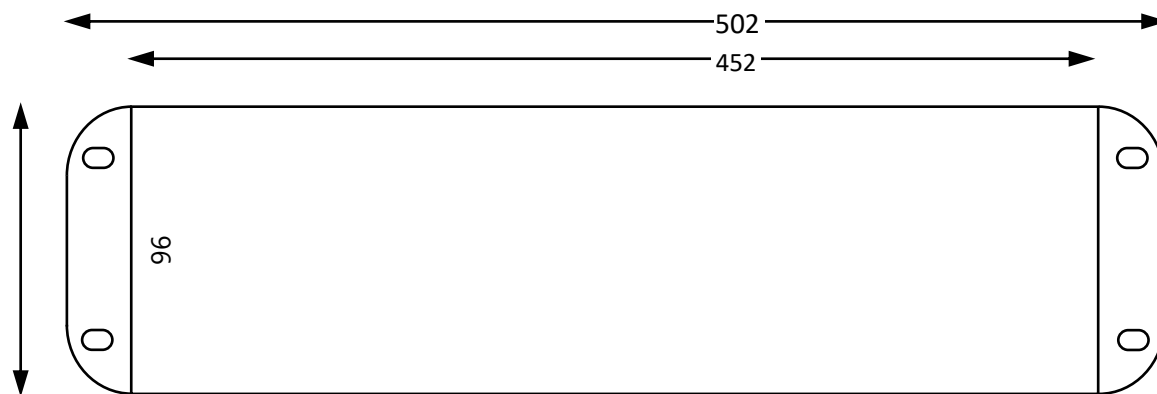
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **15A 3 Pin IP20 Australian plug input & 6 x Australian round cover, 15A, 250V, IP44 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 15A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	15A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

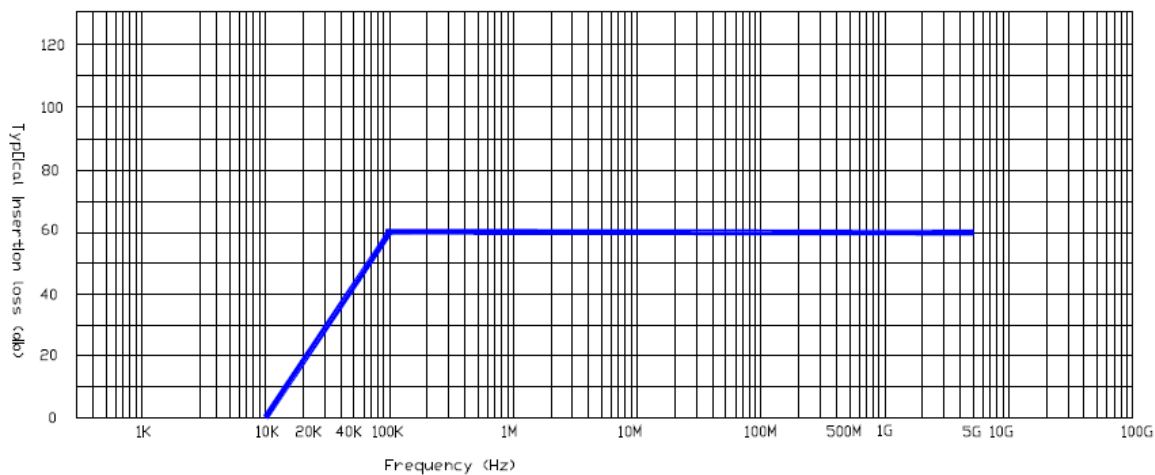
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 15A6S-A CP&F Part No: SCPVTEMPEST15A6SA	6 x Australian Sockets, Maximum 15A Single Phase 230V Pluggable Tempest Filter with 15A Australian Plug

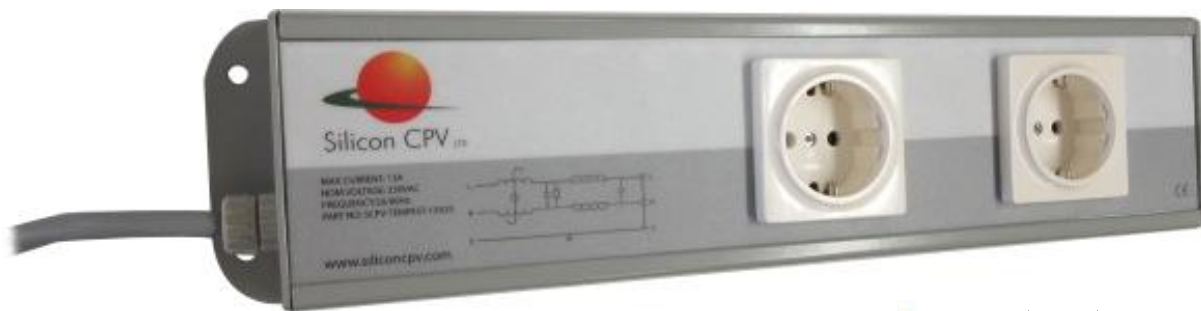
SCPV - TEMPEST Pluggable Filter - 16A2S - EU

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



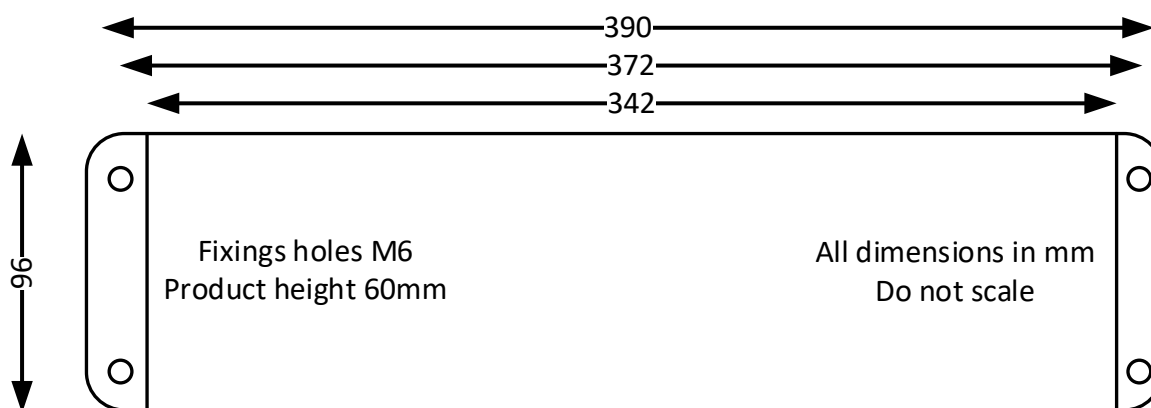
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **16A Type F plug input** & 2 socket outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

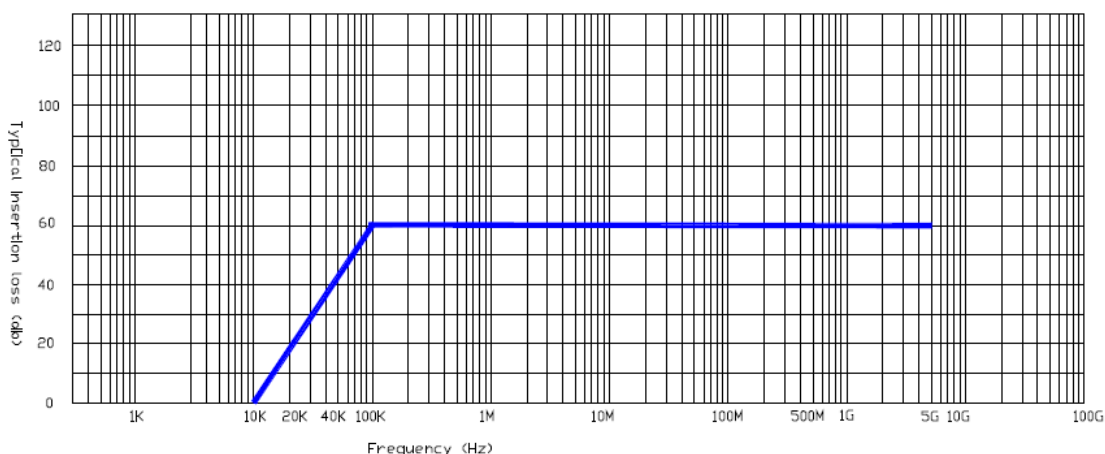
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A2S - EU CP&F Part No: SCPVTEMPEST16A2S-EU	2 x Type F Sockets, Maximum 16A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 16A4S - EU

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



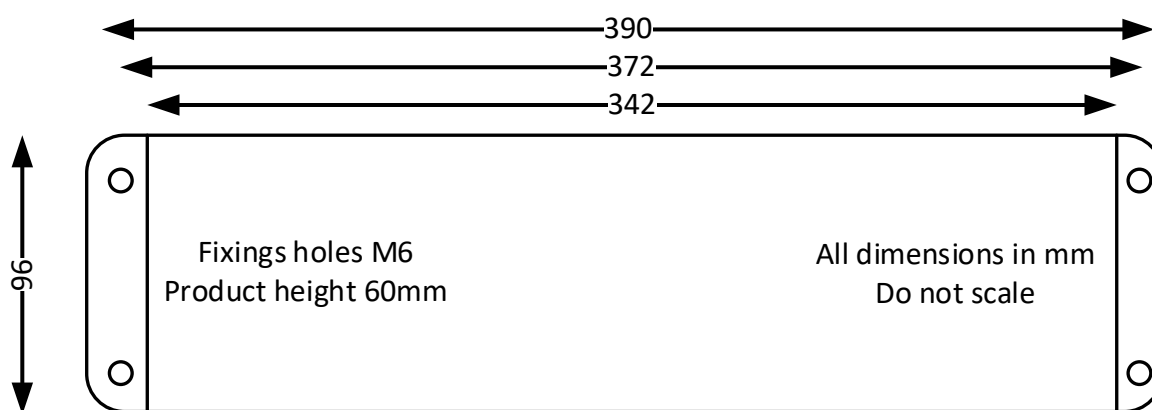
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **16A Type F plug input** & 4 x sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

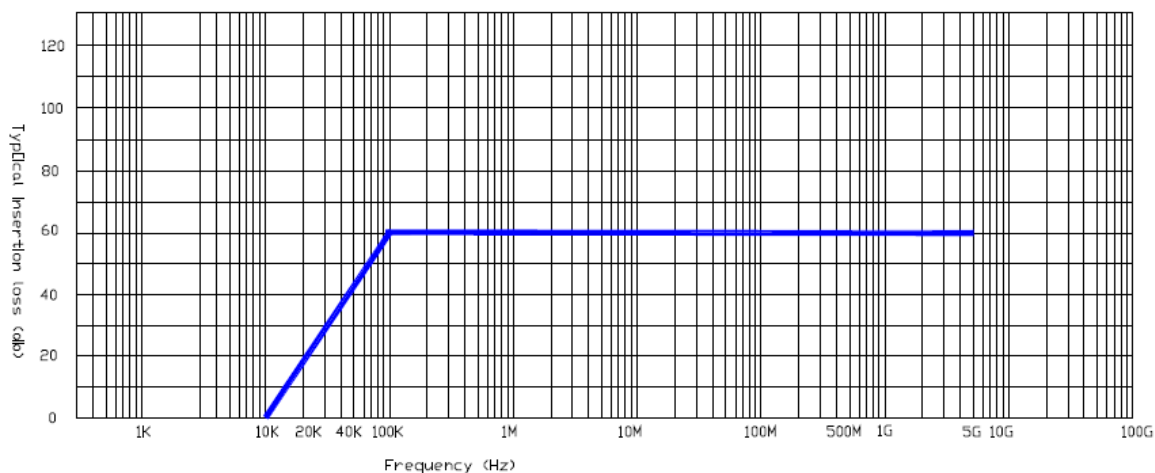
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A4S - EU CP&F Part No: SCPVTEMPEST16A4SEU	4 x Type F Sockets, Maximum 16A Single Phase 230V Pluggable Tempest Filter

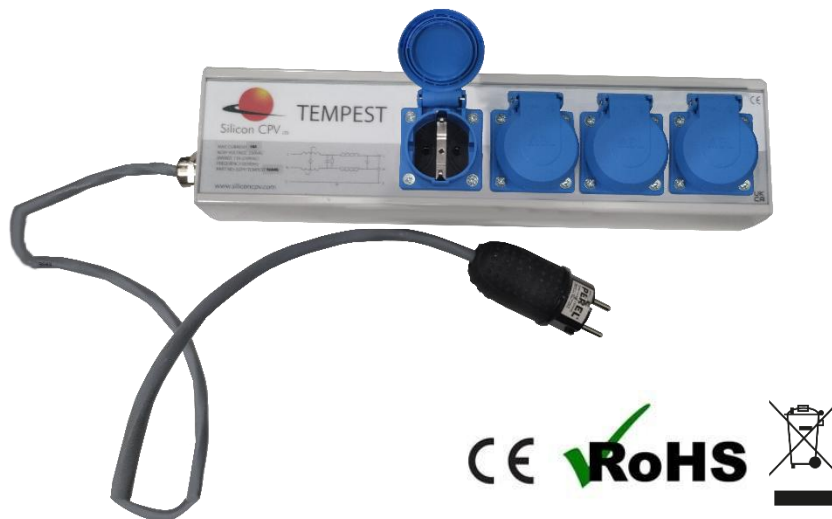
SCPV - TEMPEST Pluggable Filter - 16A4S - EU -C

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



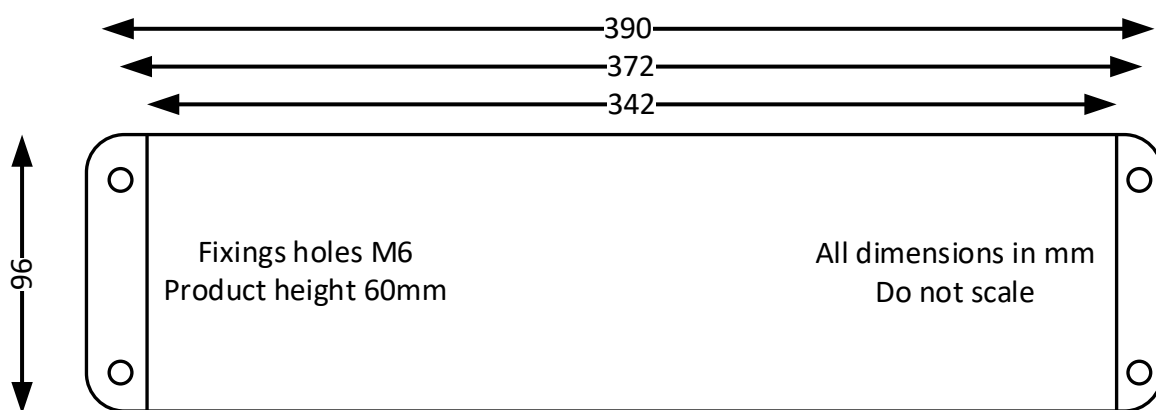
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **16A Type F plug input** & 4 x sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

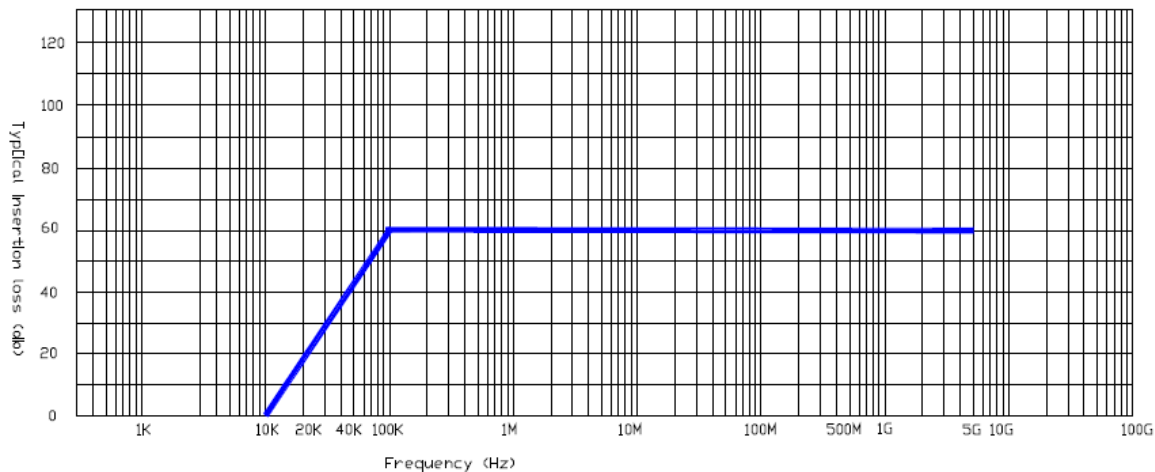
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A4S - EU -C CP&F Part No: SCPVTEMPEST16A4SEUC	4 x Type F Sockets, Maximum 16A Single Phase 230V Pluggable Tempest Filter

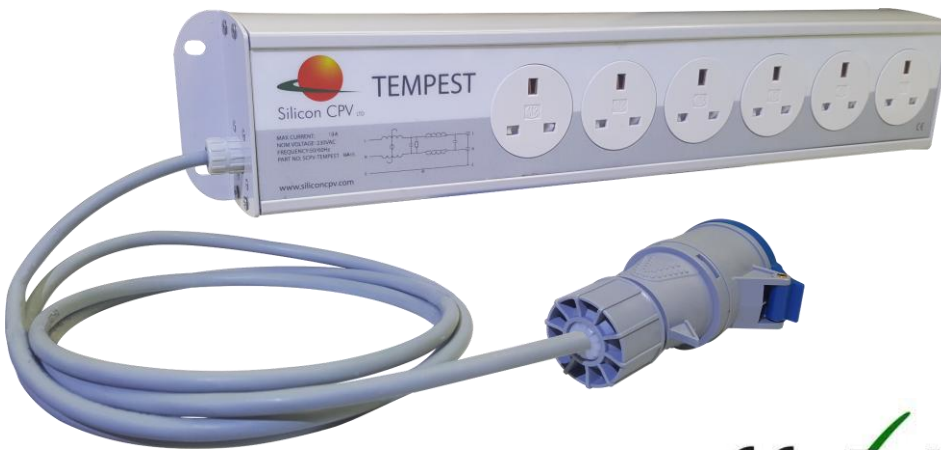
SCPV - TEMPEST Pluggable Filter - 16A6S -With 16A Commando Plug

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



Description

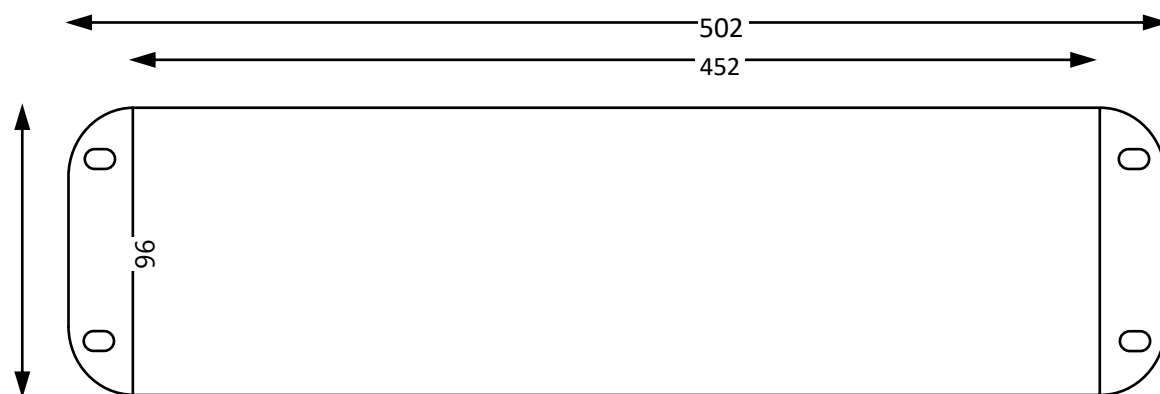
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- 16A 3 Pin Commando plug input & 6 x BS1363 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

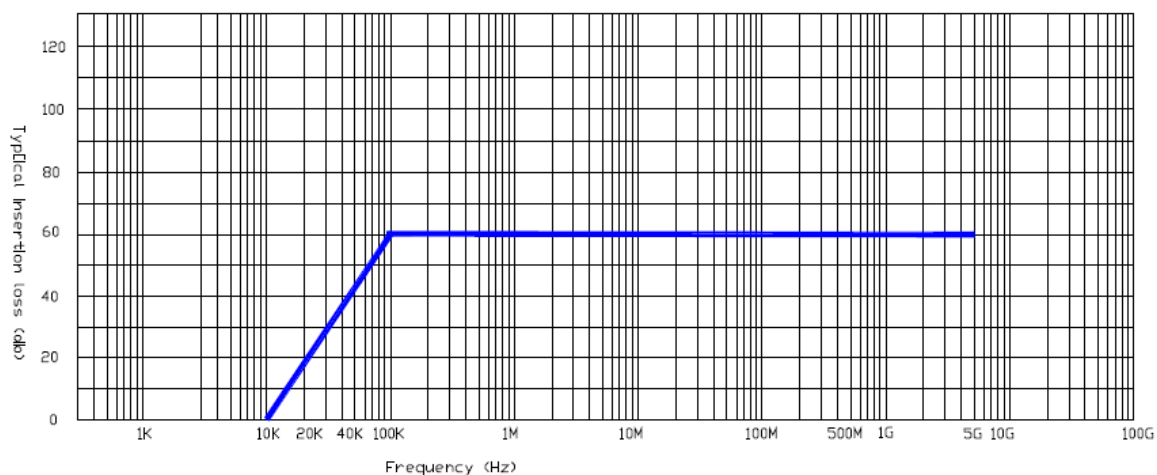
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A6S CP&F Part No: SCPVTEMPEST16A6S	6 x BS1363 Sockets, Maximum 16A Single Phase 230V Pluggable Tempest Filter with 16A Commando Plug

SCPV - TEMPEST Pluggable Filter - 16A6S -With PowerCON

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description



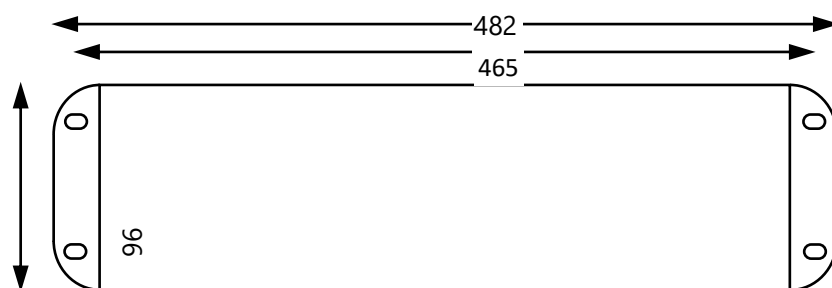
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **16A, 3 Pin, Neutrik, PowerCON TRUE 1 plug input** & 6 x BS1363 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Fixes into an existing 19" rack. So, no 2U blanking panel required
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



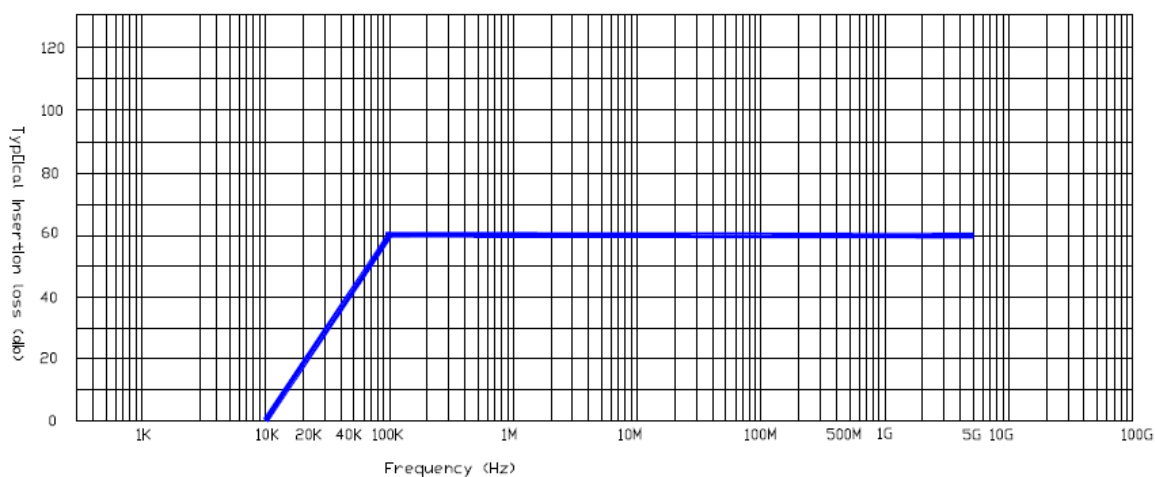
Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A6SPowerCON CP&F Part No: SCPVTEMPEST16A6SPowerCON	6 x BS1363 Sockets, Maximum 16A Single Phase 230V Pluggable Tempest Filter with 16A PowerCON TRUE1 plug

SCPV - TEMPEST-16A -PDU -10UK

Silicon CPV's 10 x UK plug sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



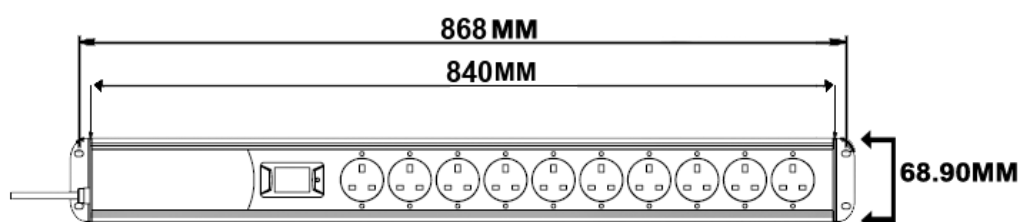
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage meter**
- **16A Commando plug input & 10 x UK plug sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

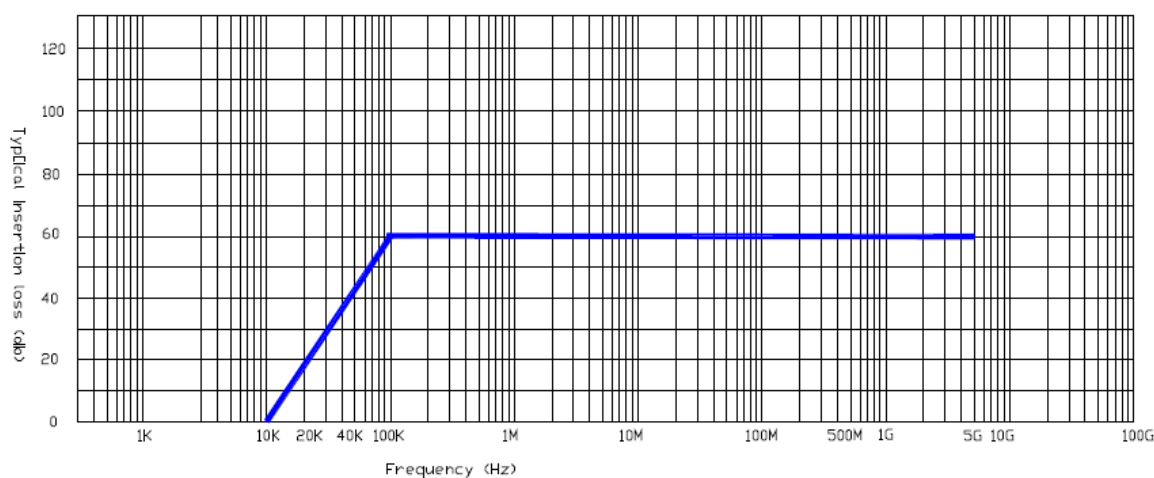
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-16A-TEMP-PDU CP&F Part No: AKH055PDU	10 x UK plug, Maximum 16A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-16A -PDU -12UK

Silicon CPV's 12 x UK plug sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



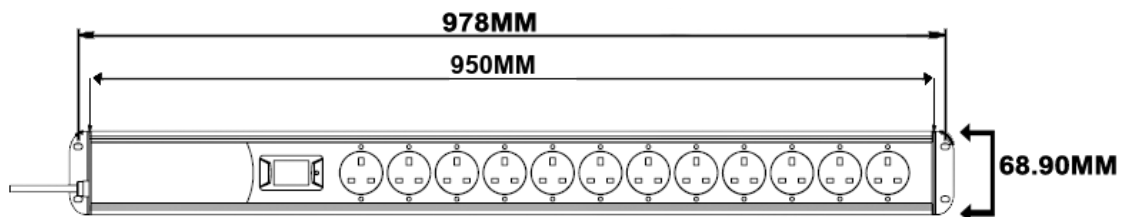
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage meter**
- **16A Commando plug input & 12 x UK plug sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

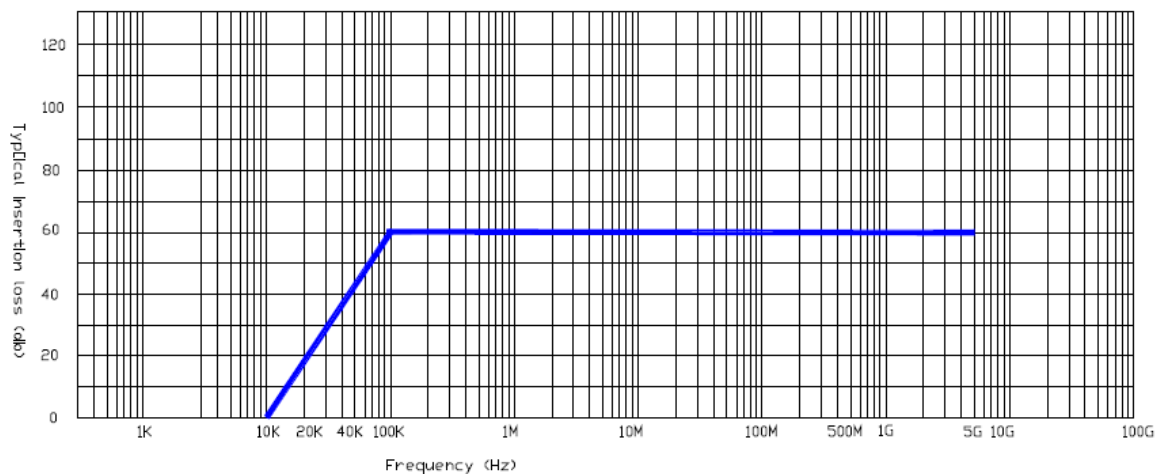
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-16A-TEMP-PDU CP&F Part No: AKH055PDU	12 x UK plug, Maximum 16A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-16A -PDU -4UK - 12C13 -4C19

Silicon CPV's 4 x UK plug, 12 x C13, 4 x C19 sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



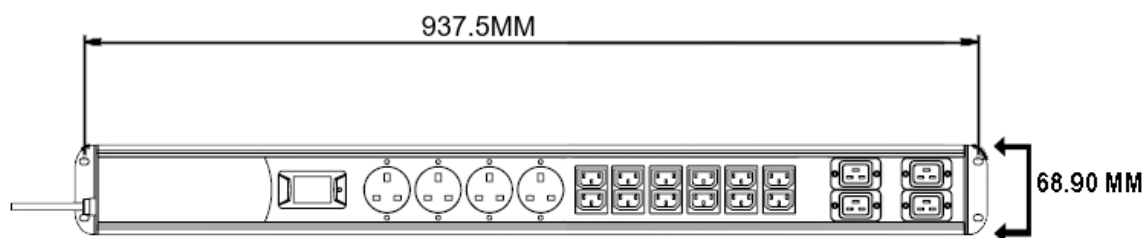
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage metre**
- **16A Commando plug input** & 4 x UK plug, 12 x C13, 4 x C19 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

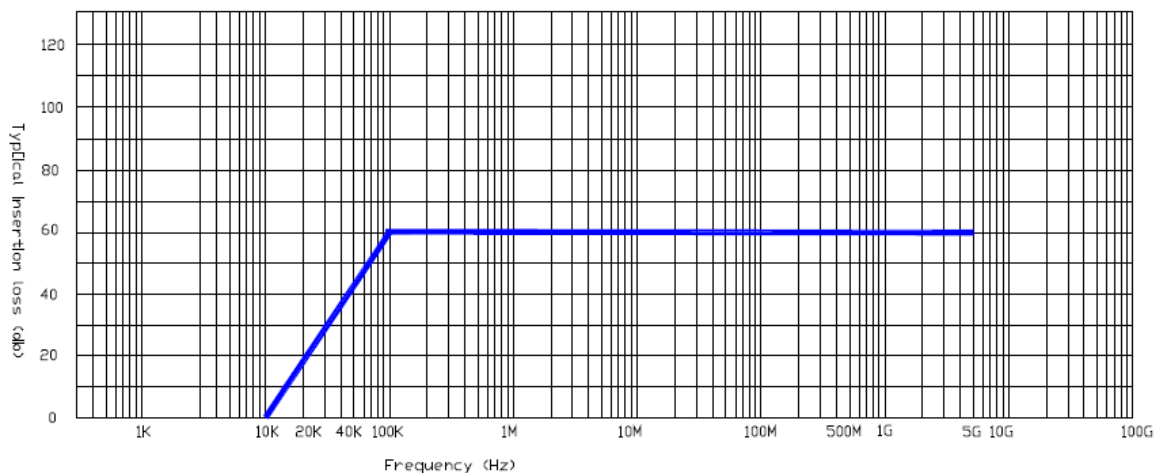
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-16A-TEMP-PDU CP&F Part No: AKH055PDU	4 x UK plug, 12 x C13, 4 x C19 Maximum 16A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-16A -PDU -12UK - 10C13 -6C19

Silicon CPV's 12 x UK plug, 10 x C13, 6 x C19 sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



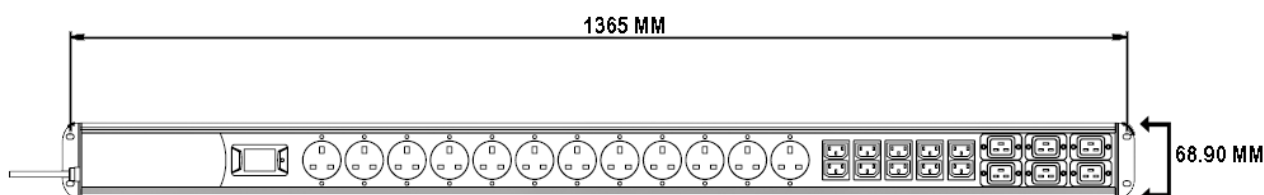
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage metre**
- **16A Commando plug input** & 12 x UK plug, 10 x C13, 6 x C19 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

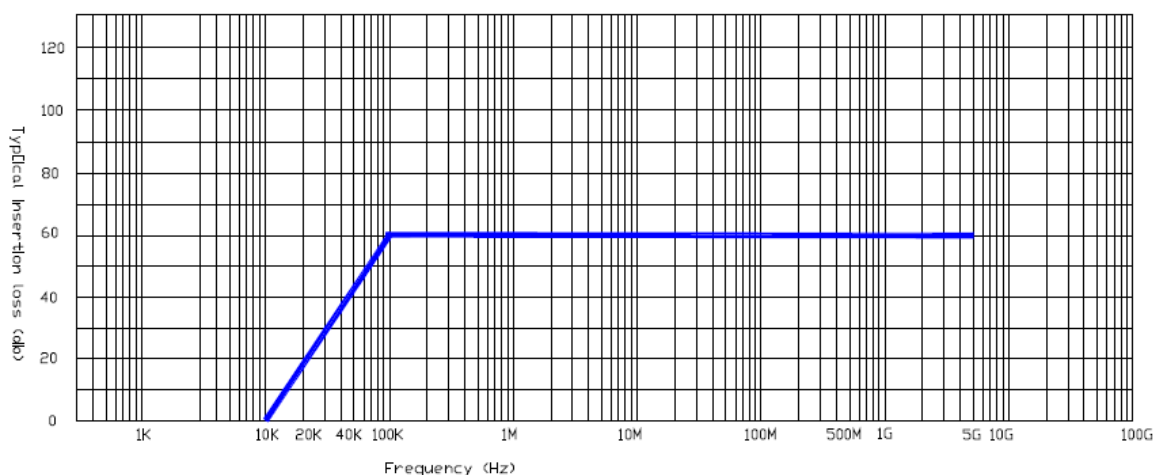
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-16A-TEMP-PDU CP&F Part No: AKH055PDU	12 x UK plug, 10 x C13, 6 x C19 Maximum 16A Single Phase 230V Pluggable Tempest Filter

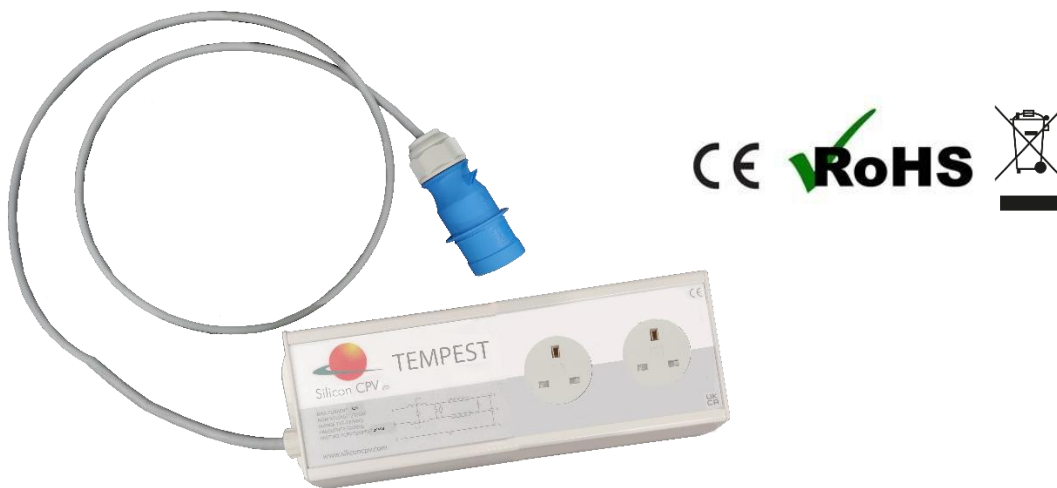
SCPV - TEMPEST Pluggable Filter - 32A2S

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



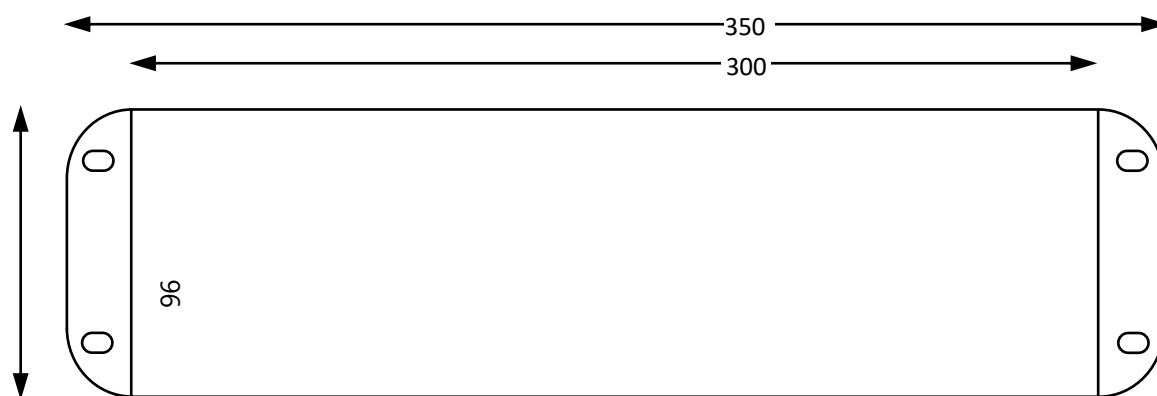
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **32A Commando plug input** & 2 x BS1363 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminum enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- Optional alternative connectors i.e. Commando Plug

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminum
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

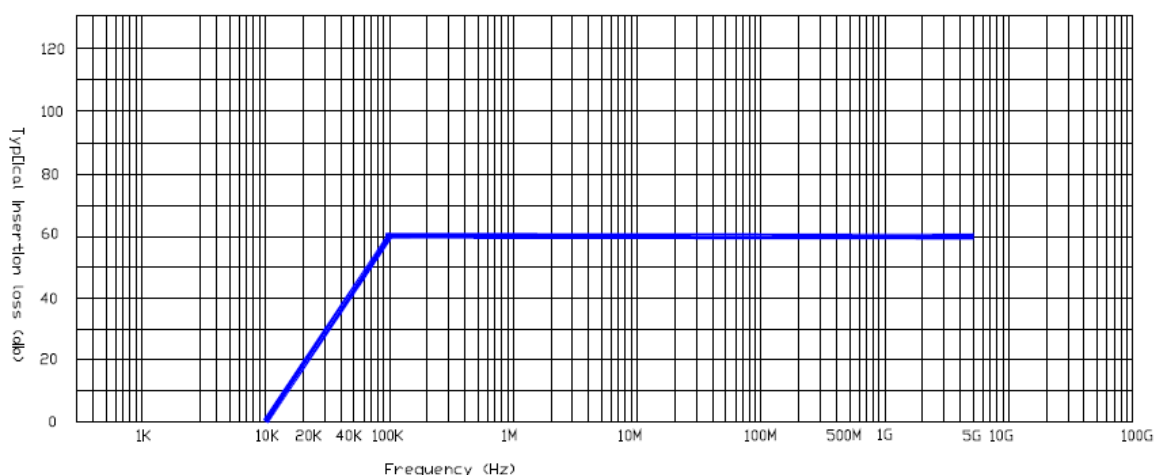
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A2S CP&F Part No: SCPVTEMPEST32A2S	2 x BS1363 Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

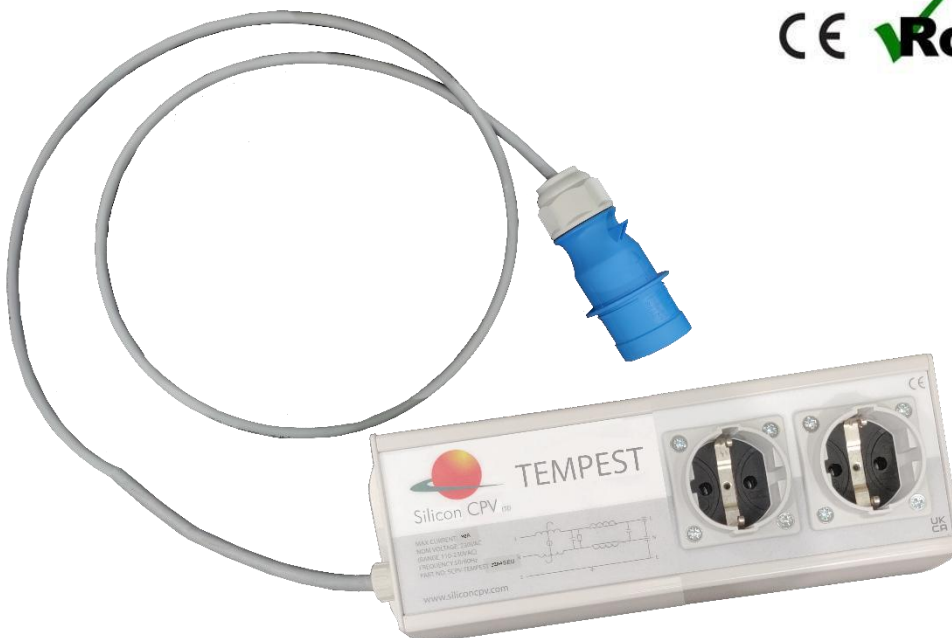
SCPV - TEMPEST Pluggable Filter - 32A2S - EU

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



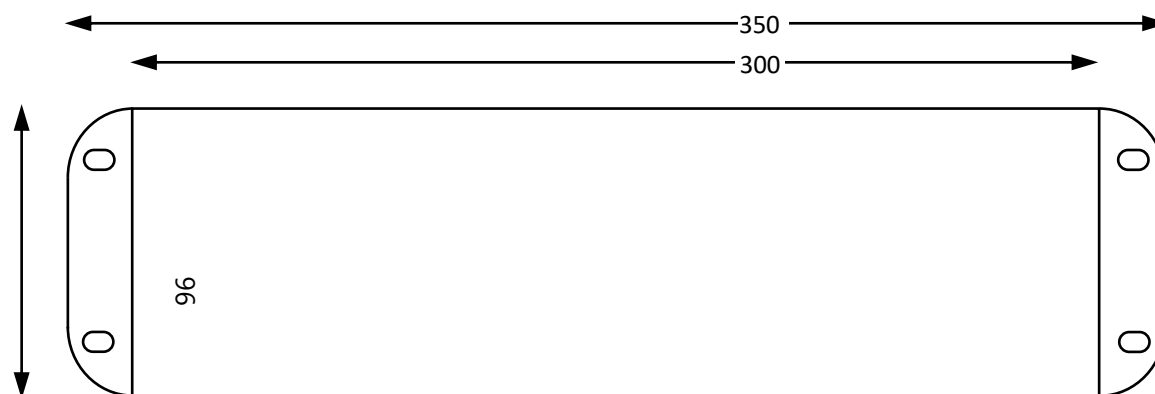
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **32A 3 Pin Commando plug input & 2 Type F socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

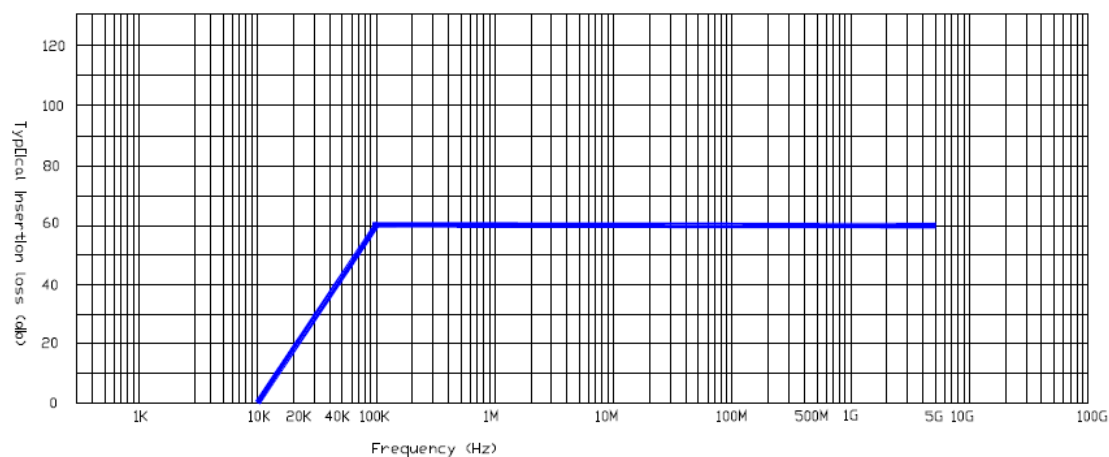
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A2S - EU CP&F Part No: SCPVTEMPEST32A2SEU	2 x Type F Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 32A4S

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



Description

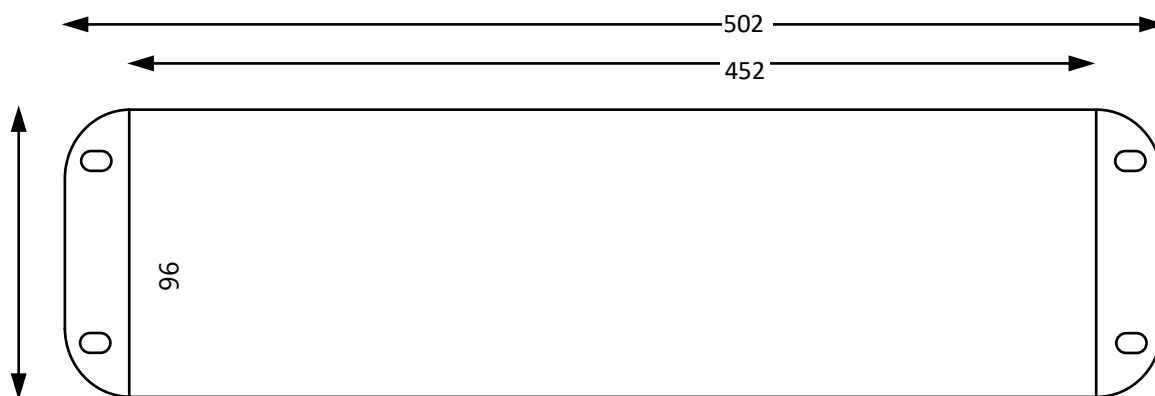
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **32A Commando plug input** & 4 x BS1363 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- Optional alternative connectors i.e. Commando Plug

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminum
Finish	Powder coated

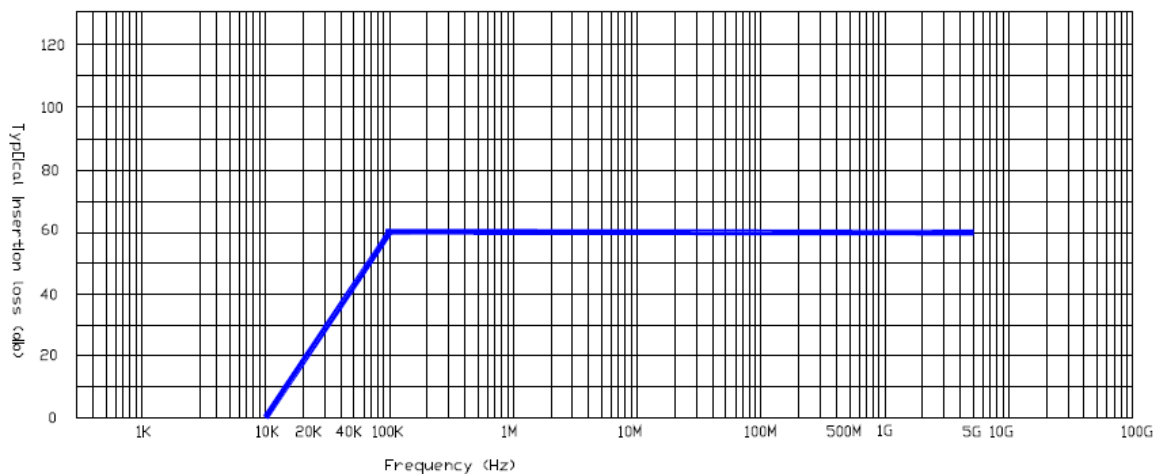
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A4S CP&F Part No: SCPVTEMPEST32A4S	4 x BS1363 Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 32A4S - EU

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



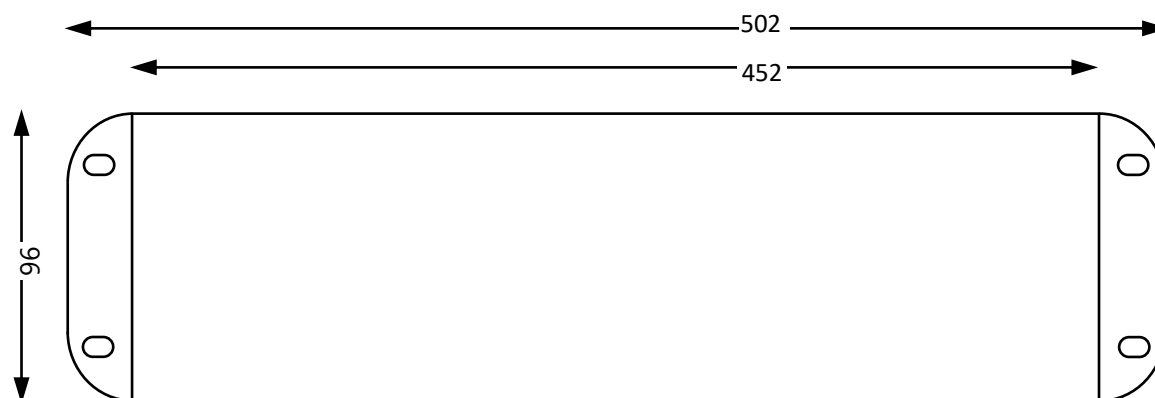
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **32A 3 Pin Commando plug input** & 4 Type F socket outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

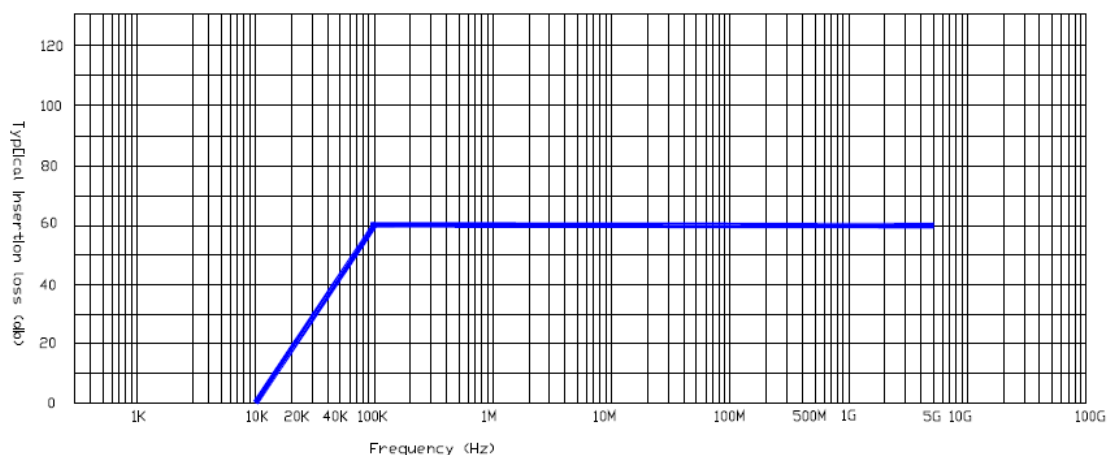
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A4S - EU CP&F Part No: SCPVTEMPEST32A4SEU	4 x Type F Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

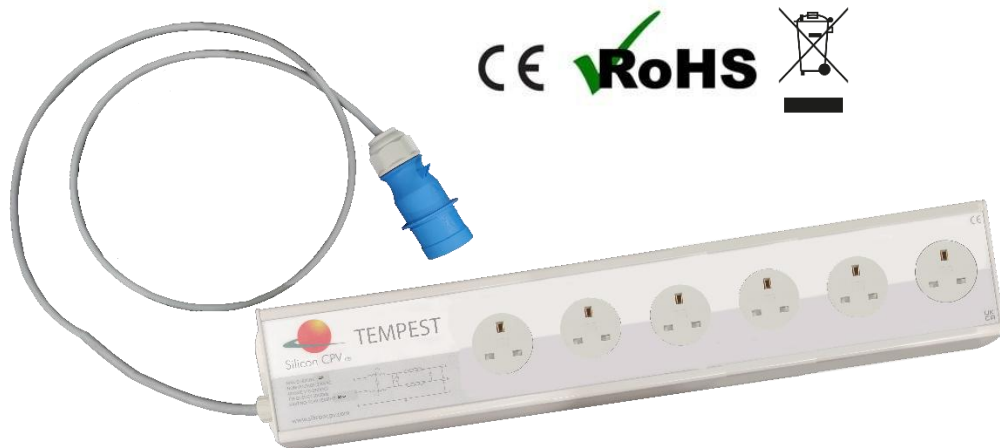
SCPV - TEMPEST Pluggable Filter - 32A6S

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



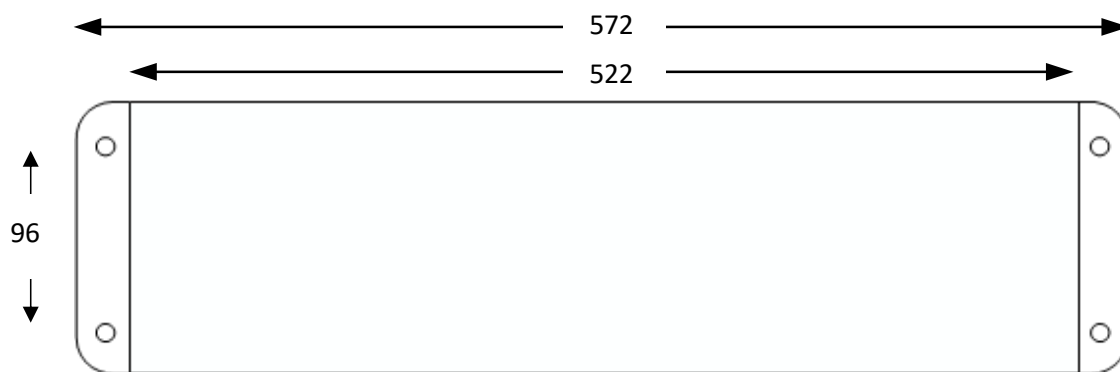
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **32A Commando plug input** & 6 x BS1363 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminum enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- Optional alternative connectors i.e. Commando Plug

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminum
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



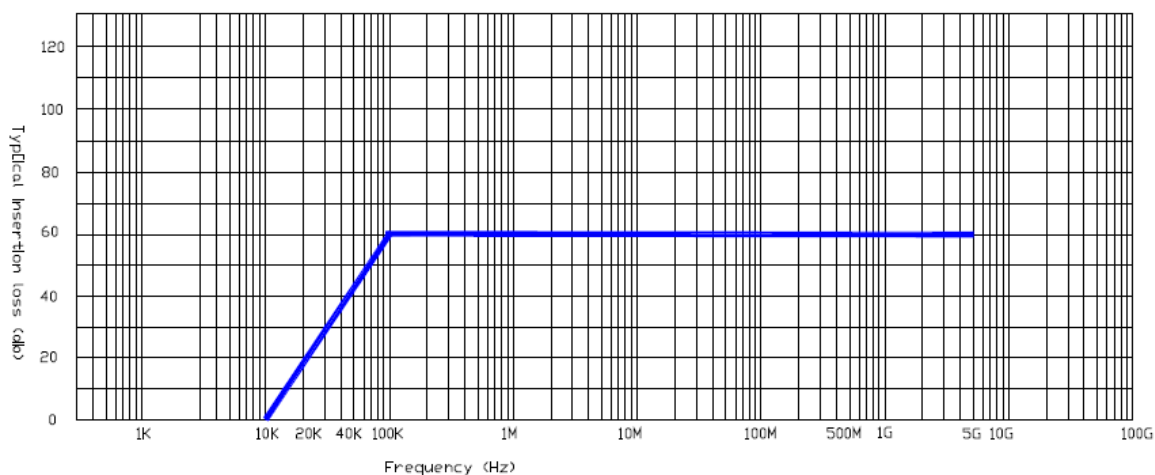
Fixing Holes M6

All Dimensions in mm

Product Height 60mm

Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A6S CP&F Part No: SCPVTEMPEST32A6S	6 x BS1363 Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 32A6S - EU

Silicon CPV's 6 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



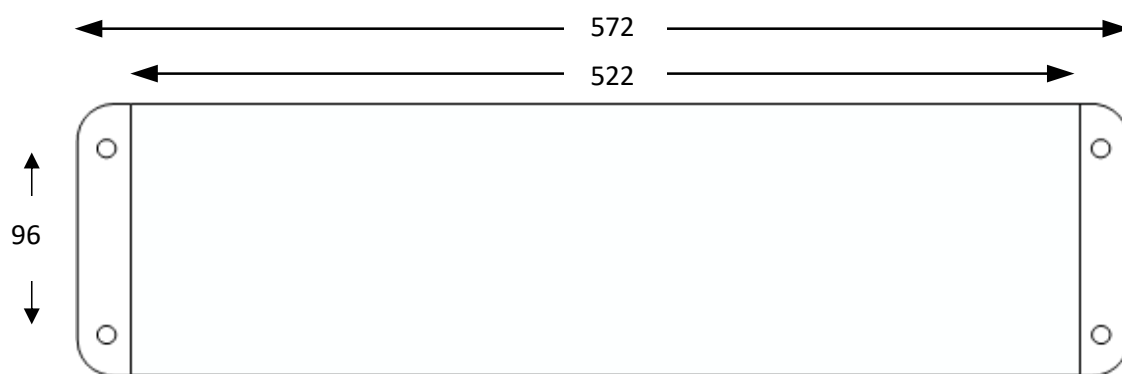
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **32A 3 Pin Commando plug input & 6 Type F socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



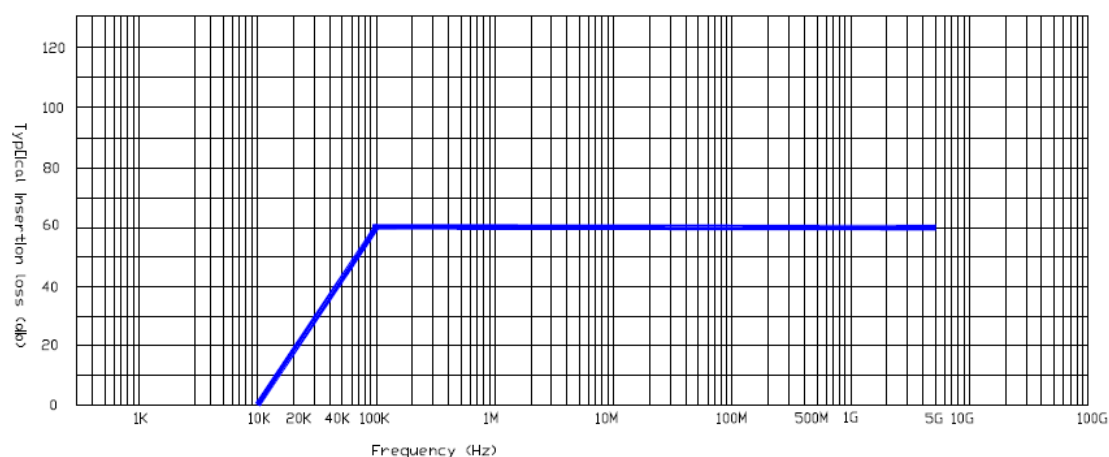
Fixing Holes M6

All Dimensions in mm

Product Height 60mm

Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A6S - EU CP&F Part No: SCPVTEMPEST32A6SEU	6 x Type F Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-32A -PDU -10UK

Silicon CPV's 10 x UK plug sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



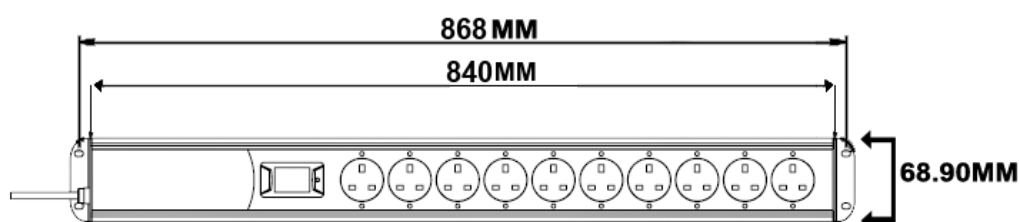
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage meter**
- **32A Commando plug input & 10 x UK plug sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

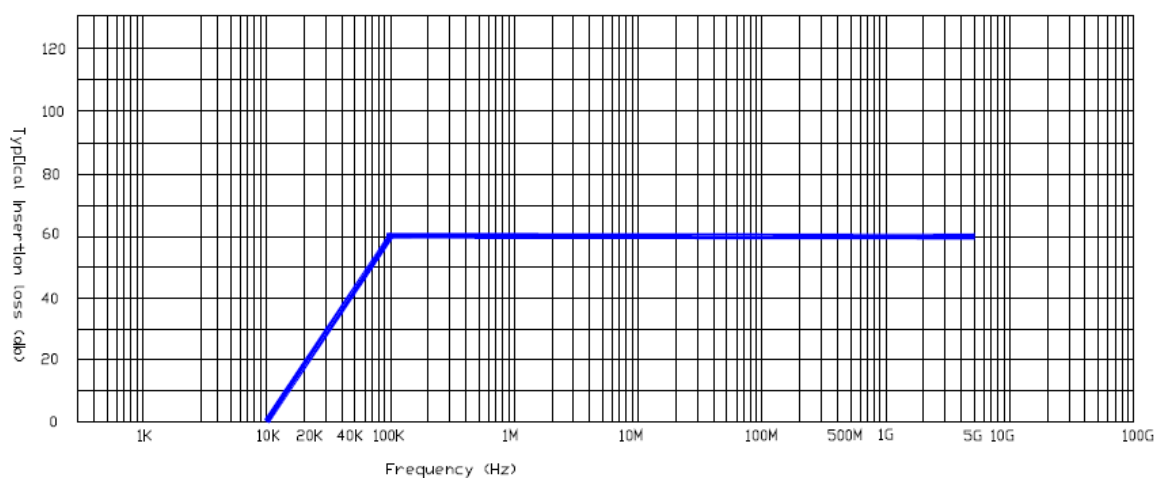
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-32A-TEMP-PDU CP&F Part No: AKH055PDU	10 x UK plug, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-32A -PDU -4UK - 12C13 -4C19

Silicon CPV's 4 x UK plug, 12 x C13, 4 x C19 sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



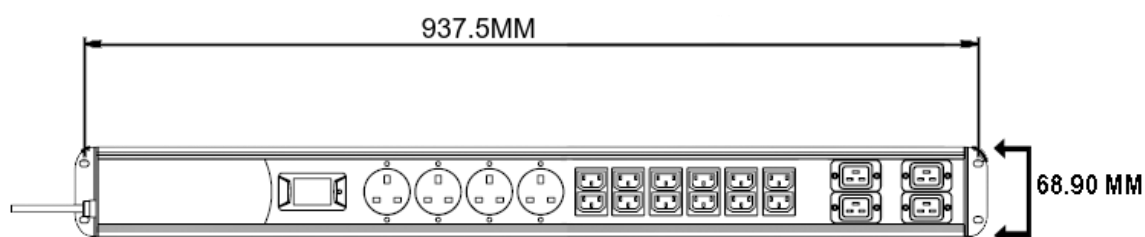
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage metre**
- **32A Commando plug input** & 4 x UK plug, 12 x C13, 4 x C19 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

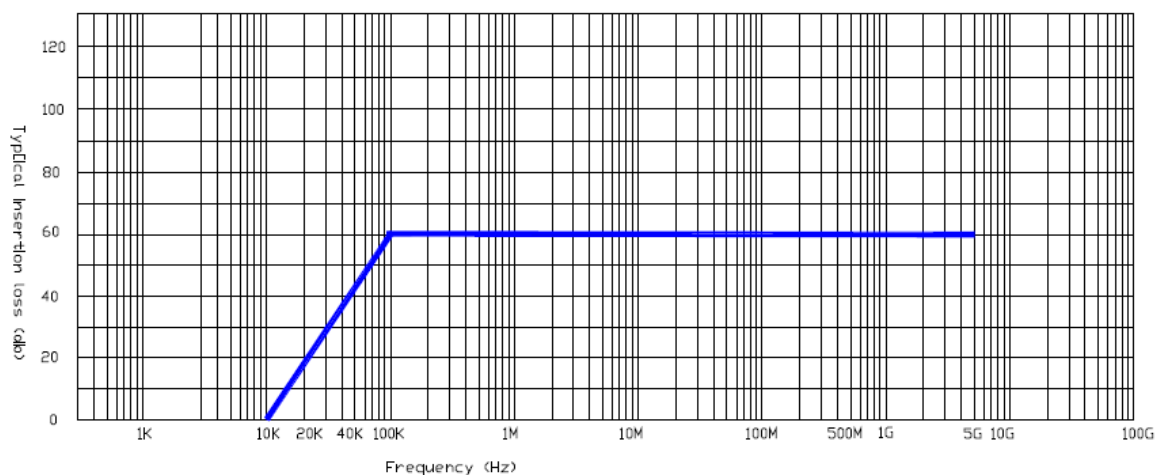
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-32A-TEMP-PDU CP&F Part No: AKH055PDU	4 x UK plug, 12 x C13, 4 x C19 Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-32A -PDU -12UK

Silicon CPV's 12 x UK plug sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



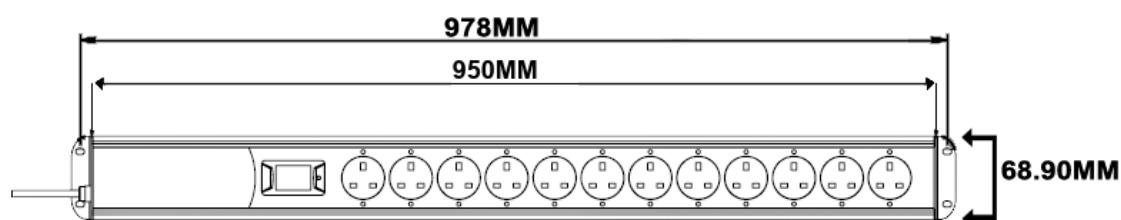
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage meter**
- **32A Commando plug input** & 12 x UK plug sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

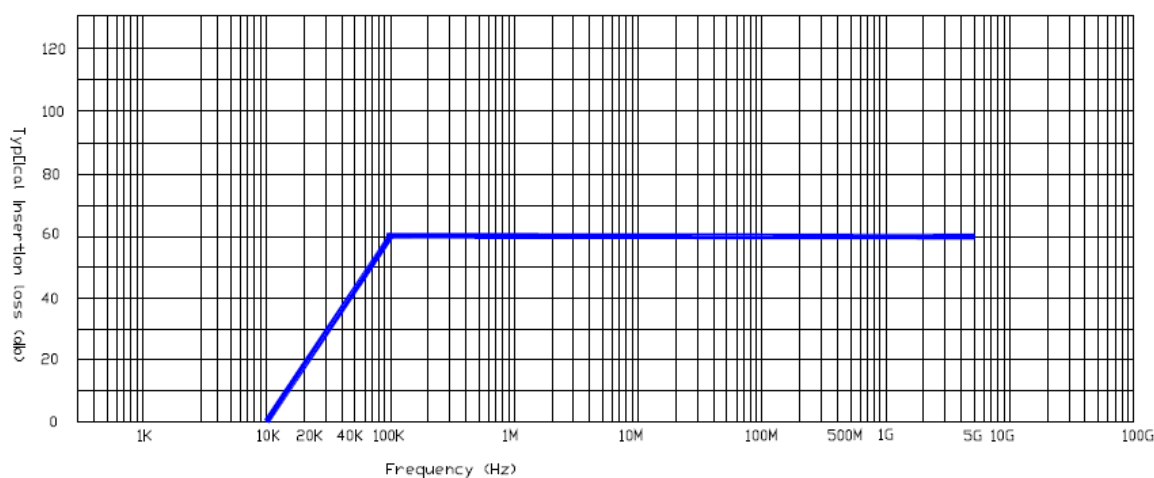
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-32A-TEMP-PDU CP&F Part No: AKH055PDU	12 x UK plug, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST-32A -PDU -12UK - 10C13 -6C19

Silicon CPV's 12 x UK plug, 10 x C13, 6 x C19 sockets outlets, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



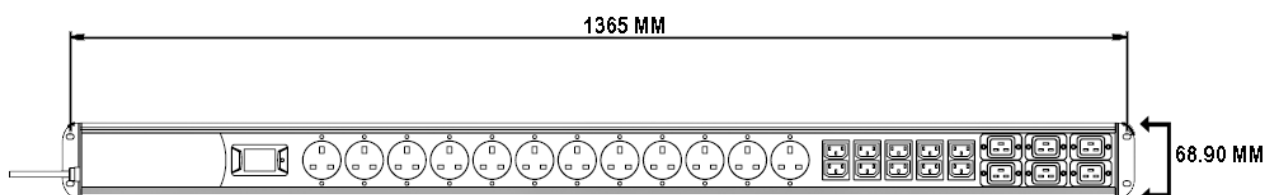
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Built-in current and voltage metre**
- **32A Commando plug input** & 12 x UK plug, 10 x C13, 6 x C19 sockets outlets
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

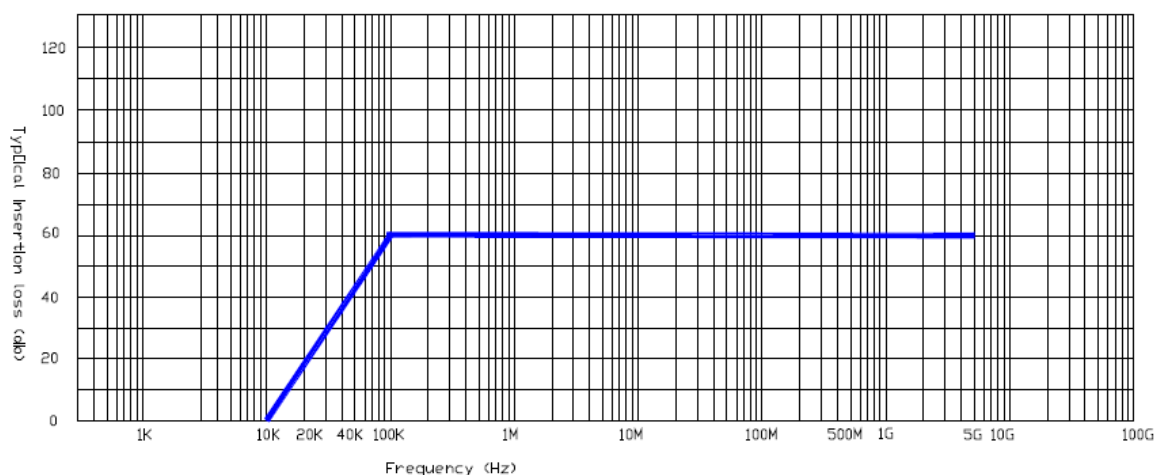
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
AKH-055PDU-32A-TEMP-PDU CP&F Part No: AKH055PDU	12 x UK plug, 10 x C13, 6 x C19 Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Inline Filter -6AIL

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **6 Amps** under single phase operating voltage conditions.



Description



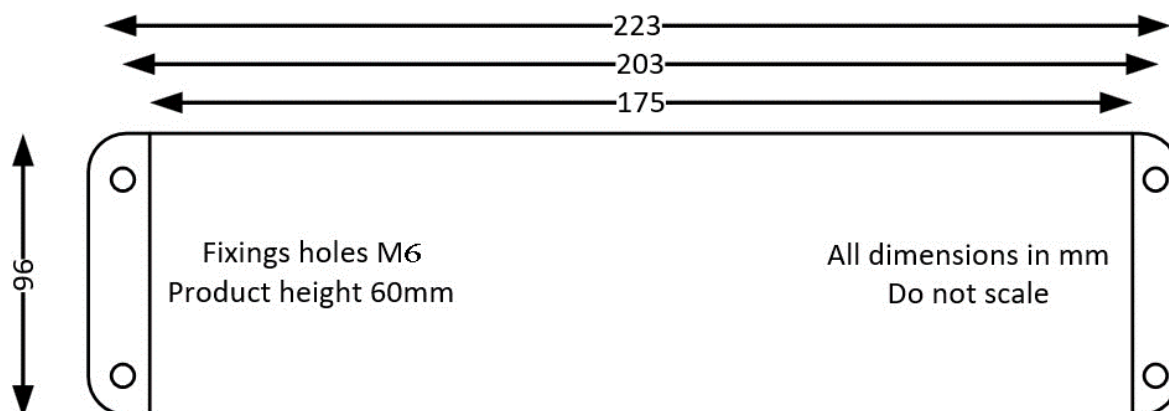
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 6A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

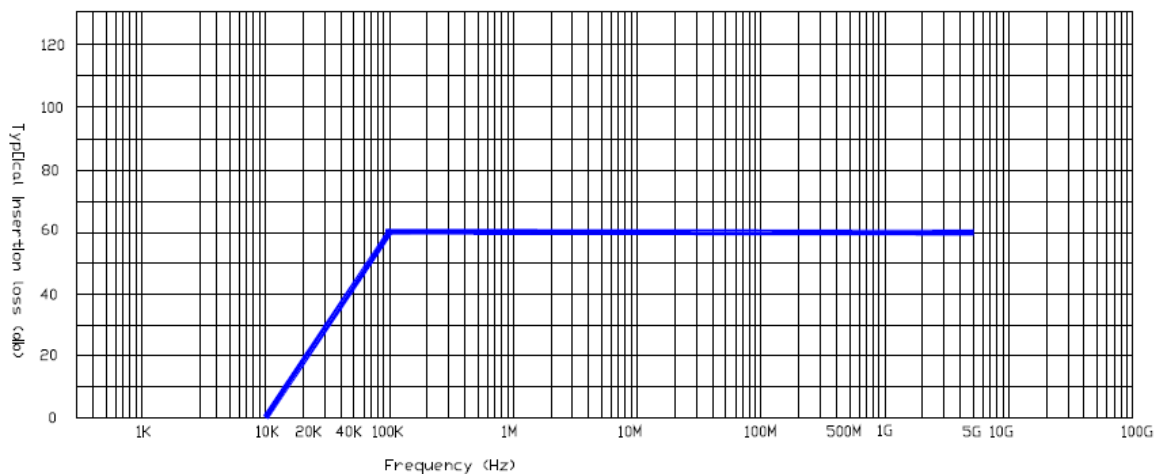
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	6A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 6AIL	Inline 6A Single Phase 230V Filter
CP&F Part No: SCPVTEMPEST6AIL	

SCPV - TEMPEST Inline Filter -13AIL

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **13 Amps** under single phase operating voltage conditions.



Description

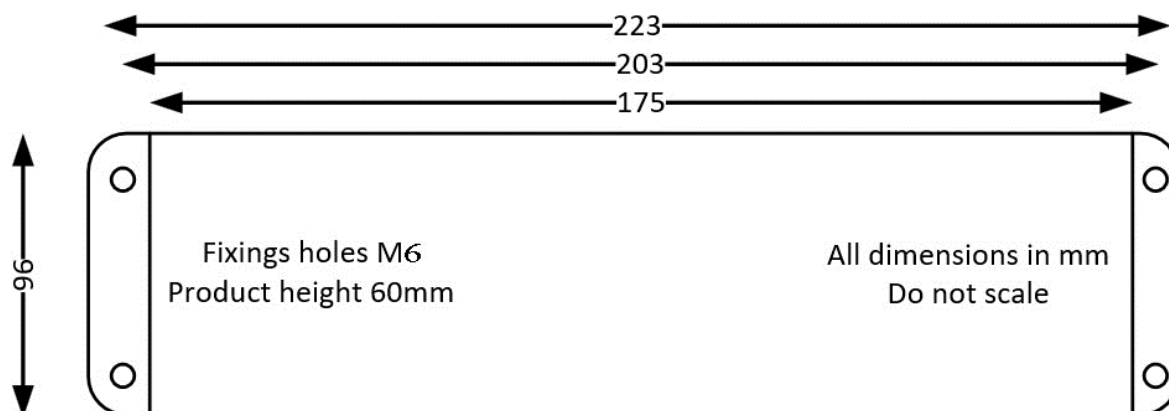
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

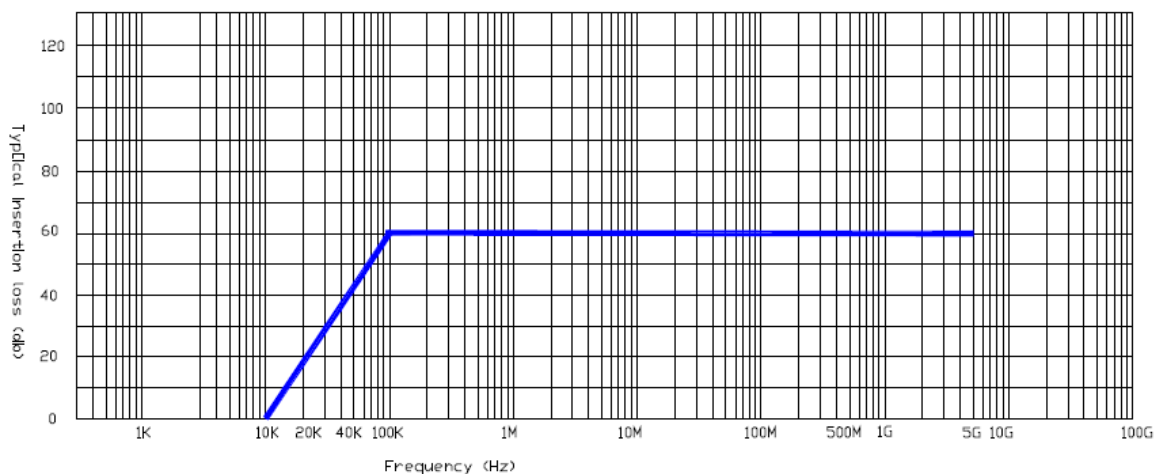
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	13A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 13AIL CP&F Part No: SCPVTEMPEST13AIL	Inline 13A single Phase 230V Filter

SCPV - TEMPEST Inline Filter -16AIL

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description

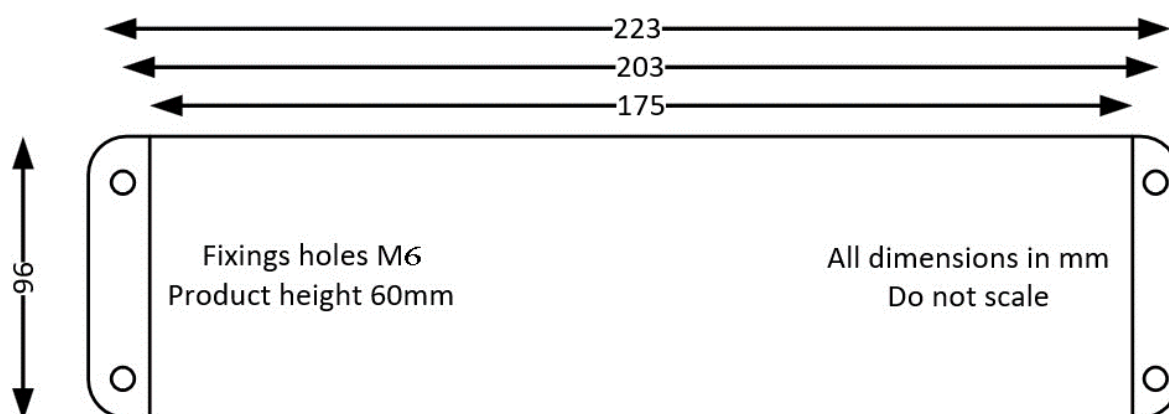
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

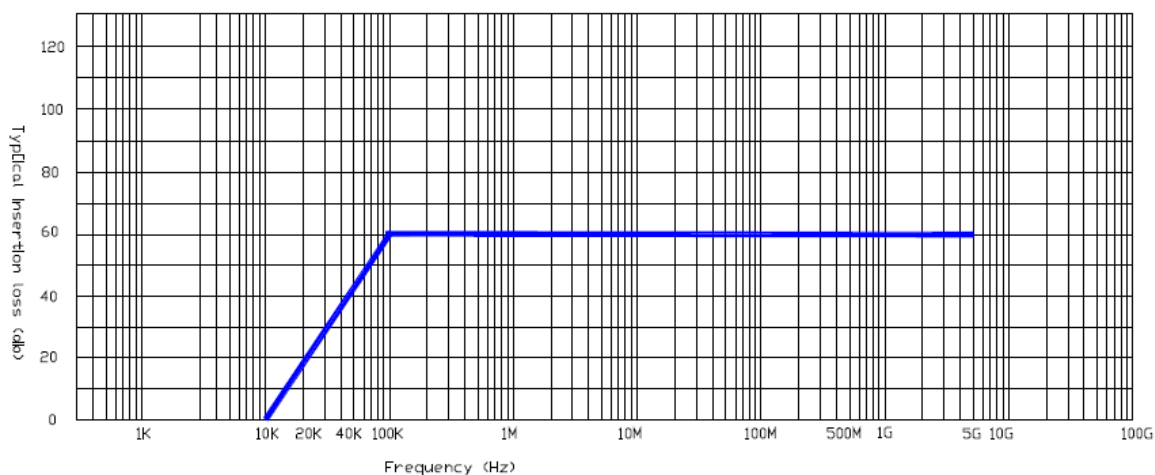
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16AIL CP&F Part No: SCPVTEMPEST16AIL	Inline 16A Single Phase 230V Filter

SCPV - TEMPEST Inline Filter -16AIL

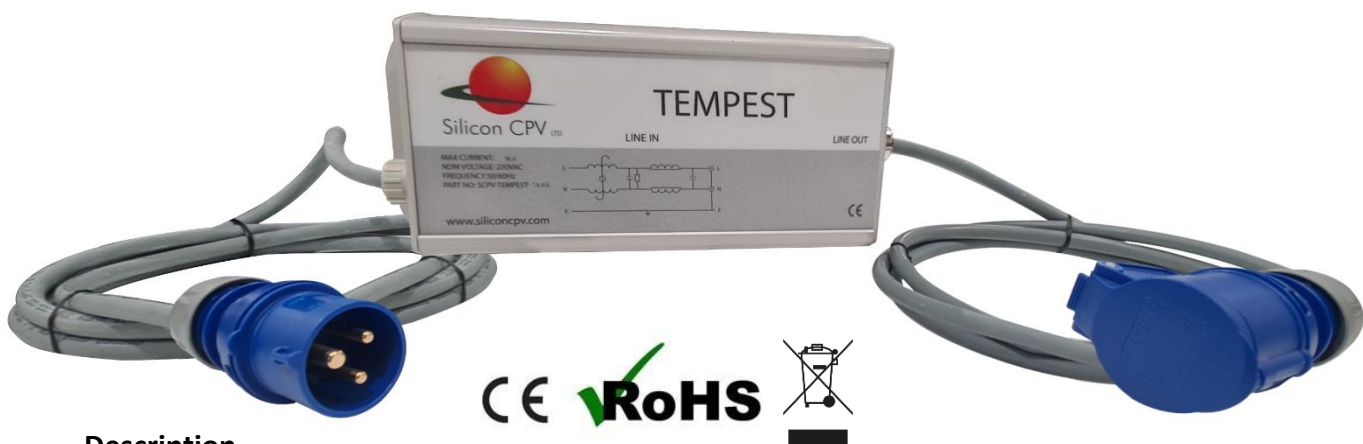
-With Commando

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description

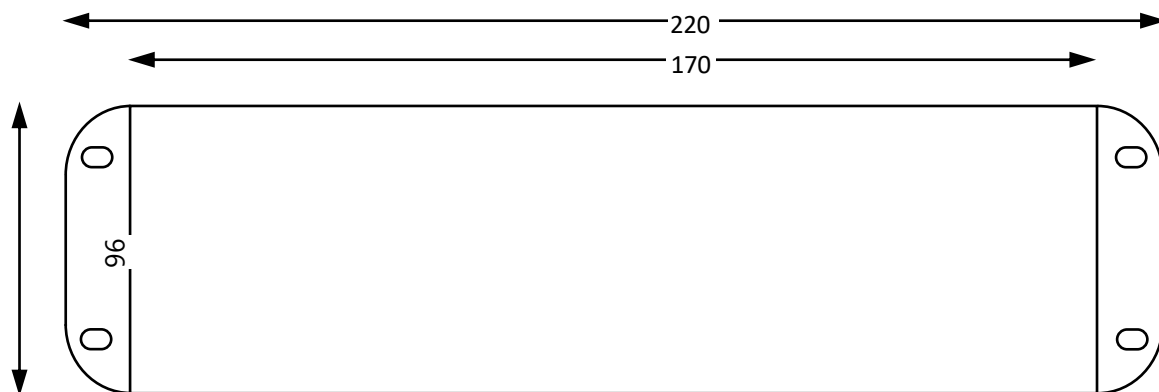
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core screened flex cable with IEC 60309 2P+E 6h 16A (2P3W) Plug for input connectivity**
- **2m, 3 core screened flex cable with IEC 60309 2P+E 6h 16A (2P3W) Socket for output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- 5-year warranty
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

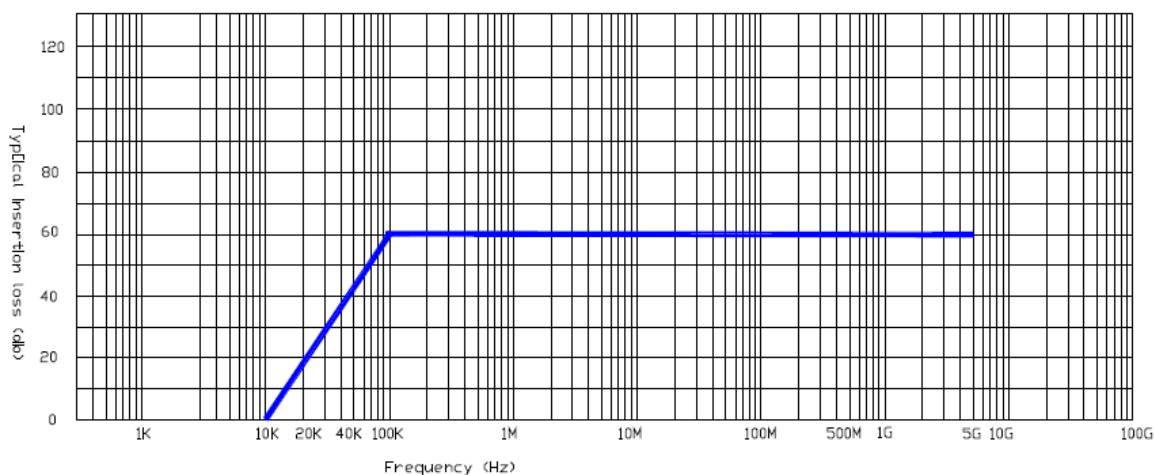
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16AIL-CPS CP&F Part No: SCPVTEMPEST16AILCPS	16A Inline Single Phase 230V Filter with IEC 60309 2P+E 6h 16A (2P3W) Input Plug and Output Socket

SCPV - TEMPEST Inline Filter - 16AIL -With PowerCON

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



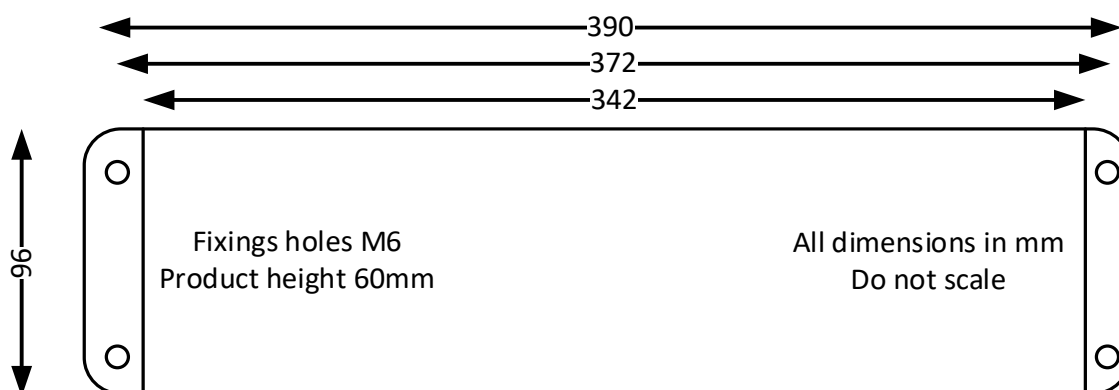
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Output connector 1 x 20A PowerCON grey**
- **Input connector 1 x 20A PowerCON blue**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

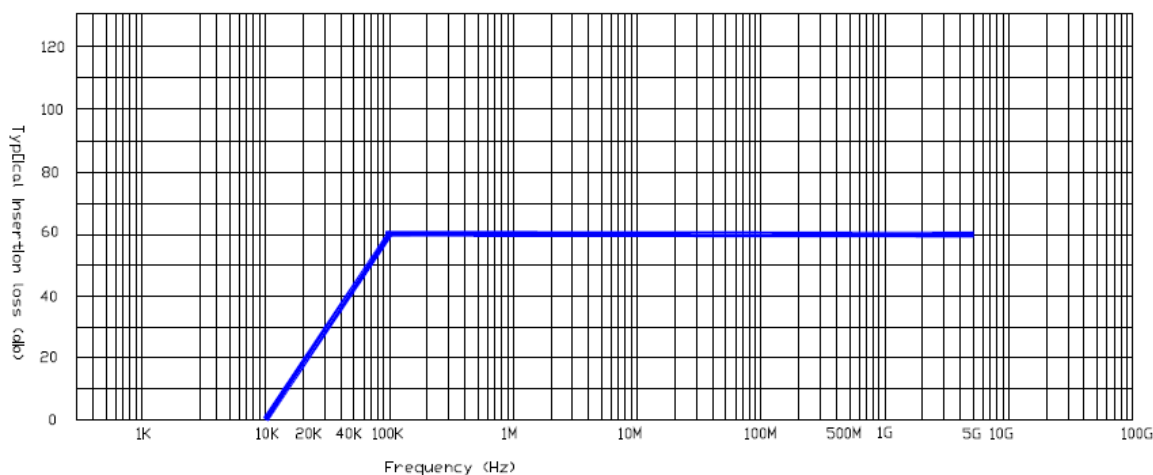
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	13A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16AIL-PCN CP&F Part No: SCPVTEMPEST16APCN Cable SCPV-CAB13A-PCN-2	Inline 16A single Phase 230V Pluggable Filter 13A UK plug to 20A PowerCON blue, 2m screened

SCPV - TEMPEST Inline Filter -32AIL

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

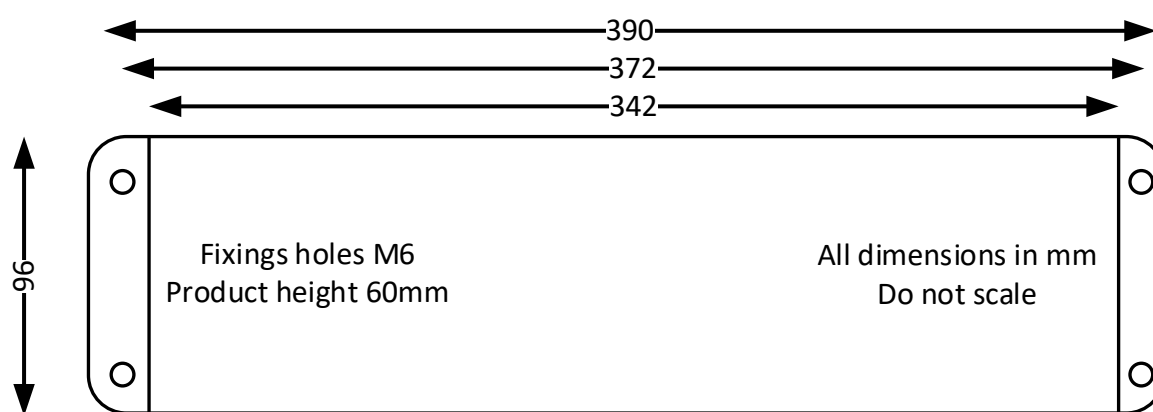


- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable for input / output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

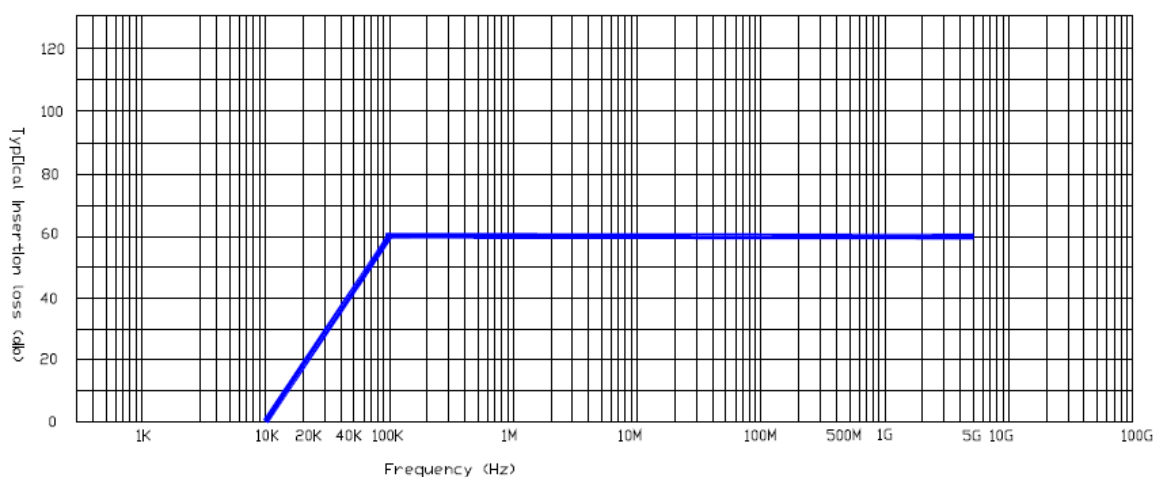
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32AIL	Inline 32A Single Phase 230V Tempest
CP&F Part No: SCPVTEMPEST32AIL	Filter

SCPV - TEMPEST Inline Filter -32AIL with Commando

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

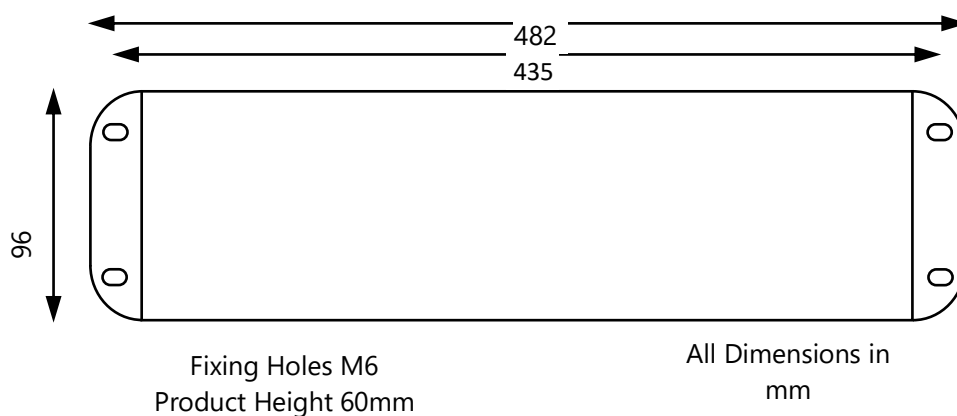
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **3m, 3 core screened flex cable with 32A 3 Pin Commando plug input**
- **1.8m, 3 core screened flex cable with 32A 3 Pin Commando socket output**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

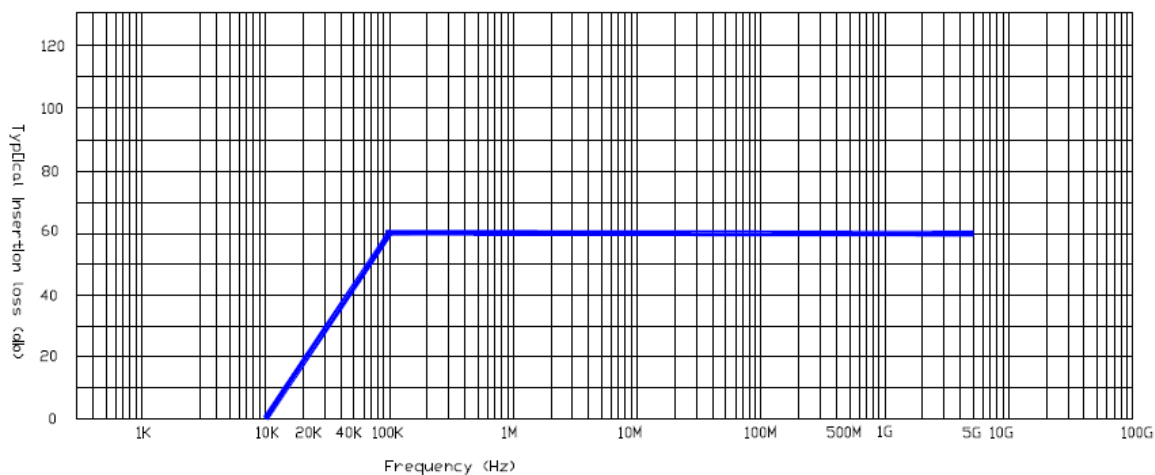
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32AILRM-com	Inline 32A Single Phase 230V Tempest Filter with 32A Commando Plug Rack mount

SCPV - TEMPEST Inline Filter -32AIL with NEMA

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

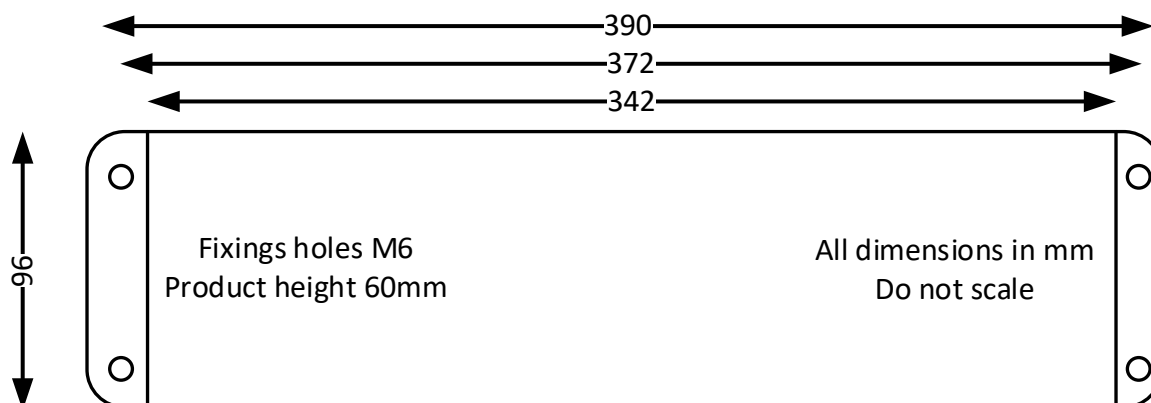
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable with NEMA plug input**
- **2m, 3 core screened flex cable with NEMA socket output**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

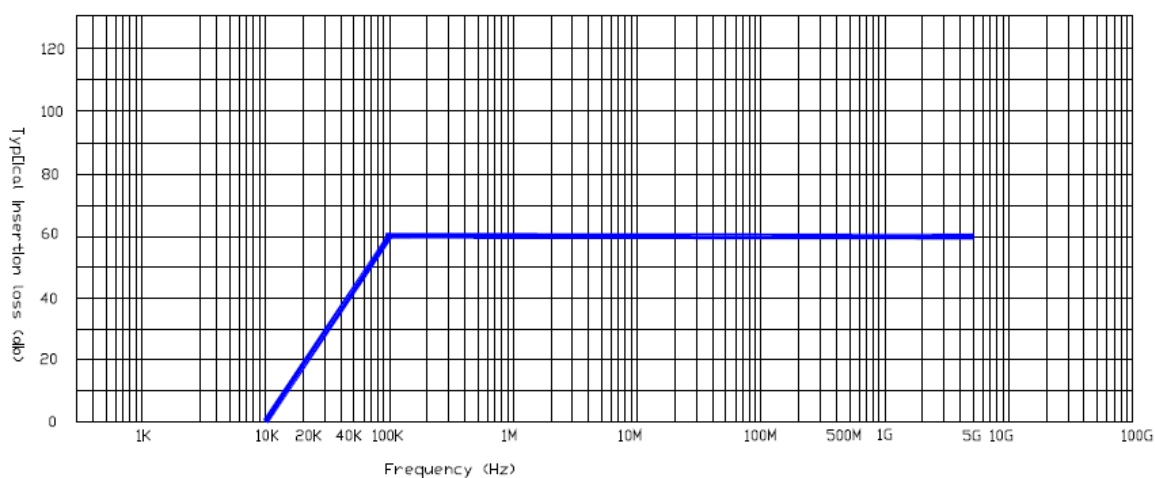
Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 32AIL -US1	Inline 32A Single Phase 230V Tempest
CP&F Part No: SCPVTEMPEST32AIL-US1	Filter with NEMA

SCPV - TEMPEST Inline Filter - 16AIL19 For 19" Rack

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description

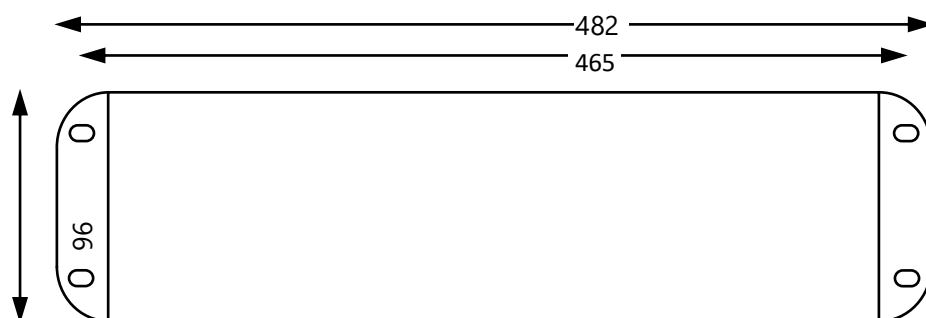
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable for input / output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



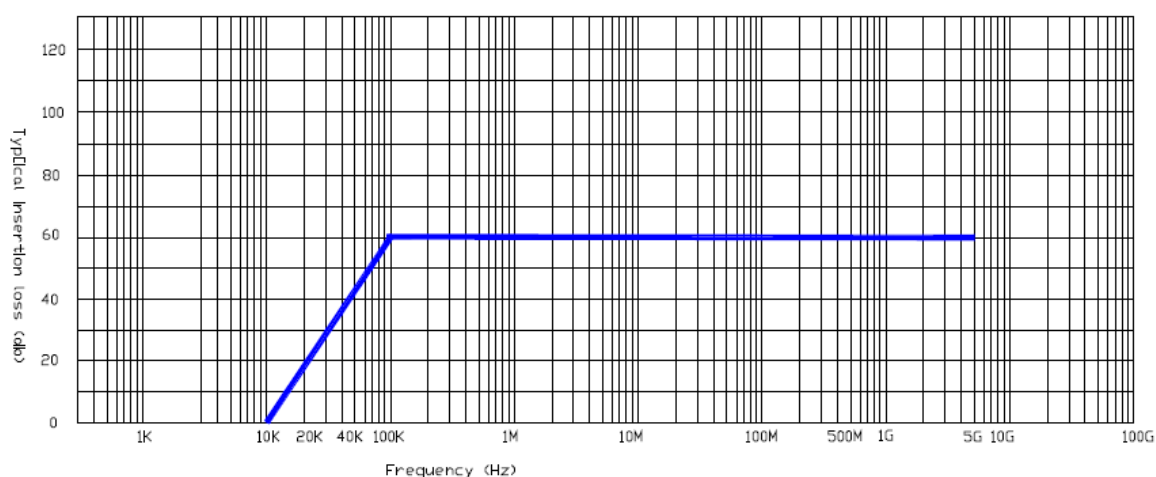
Fixing Holes M6
Product Height
60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV-TEMPEST-16AIL19	19" Rack, Inline 16A Single Phase 230V Filter
CP&F Part No: SCPVTEMPEST16AIL19	

SCPV - TEMPEST Inline Filter - 32AIL19 For 19" Rack

Silicon CPV's inline, TEMPEST filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

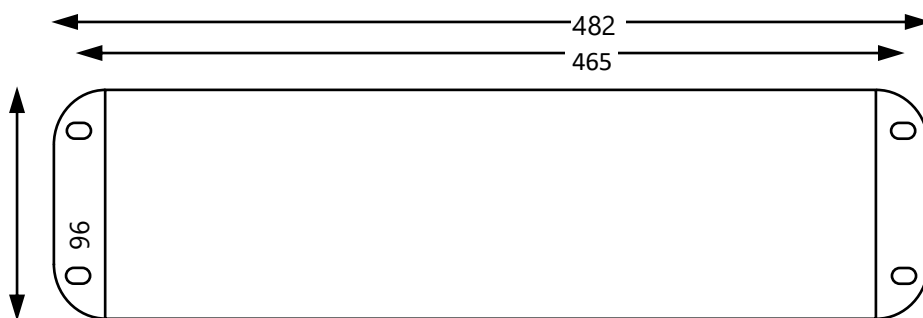
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable for input / output connectivity**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



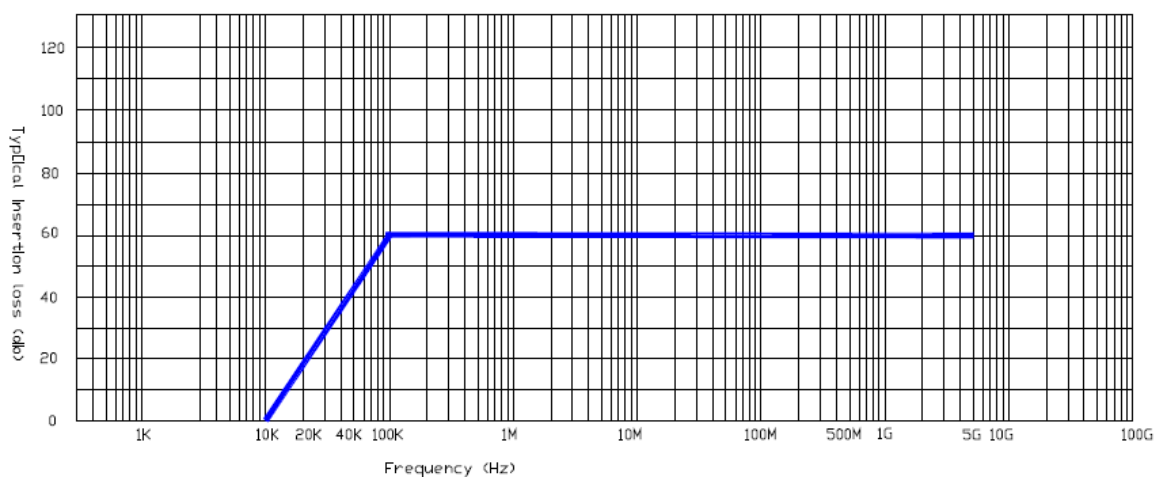
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV-TEMPEST-32AIL19	19" Rack, Inline 32A Single Phase
CP&F Part No: SCPVTEMPEST32AIL19	230V Filter

SCPV - TEMPEST Pluggable Filter - 16A4SRM For 19" Rack

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable for input & output connectivity, 4 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

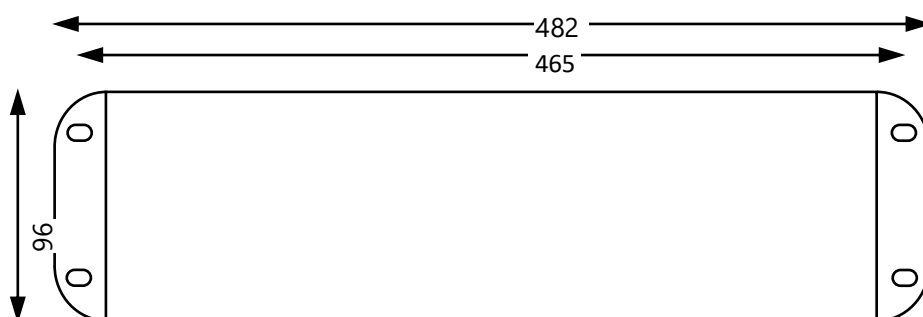
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded aluminium
Finish	Powder coated

Dimensional Data

19" Rack Mount

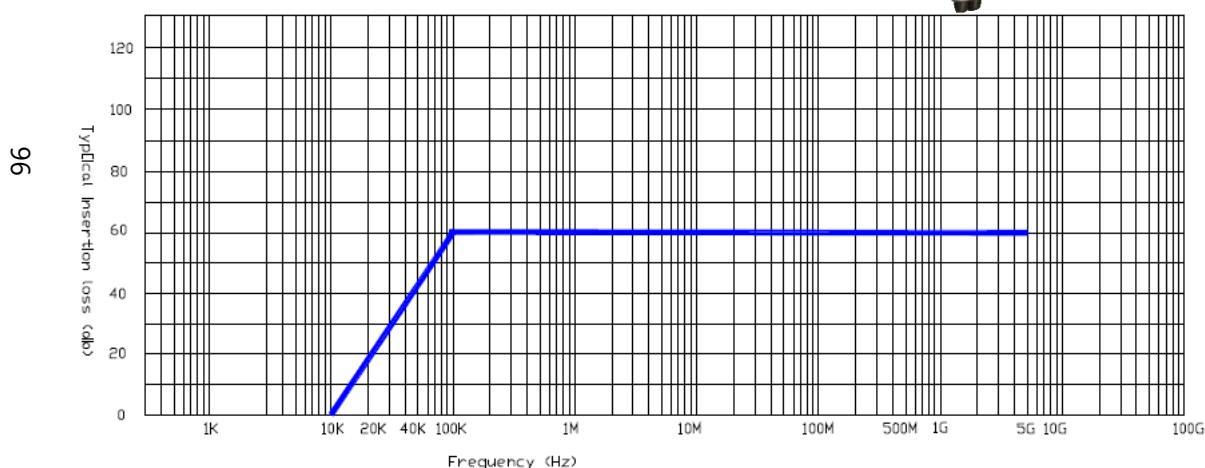


Fixing Holes M6
Product Height 60mm

All Dimensions in
mm



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV-TEMPEST-16A4SRM CP&F Part No: SCPVTEMPEST16A4SRM	19" Rack, 16A Single Phase, 4 x 13A Socket 230V Filter

SCPV - TEMPEST -16A4C19 For 19” Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description

- 19" Rack Mountable Filter including 16A MCB
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **4 x 16A C19 socket outlets and 16A MCB**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

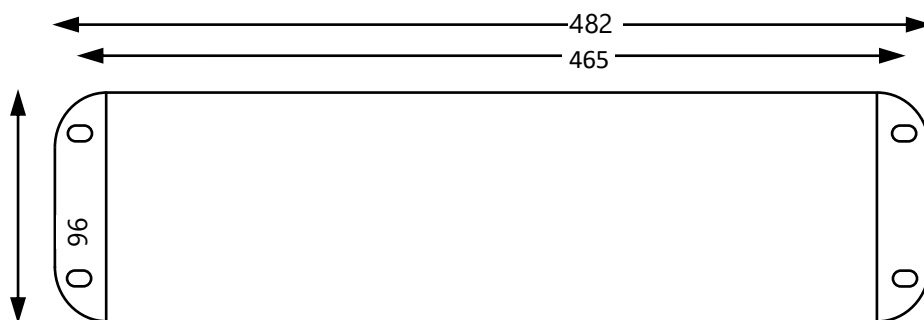
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data

19" Rack Mount

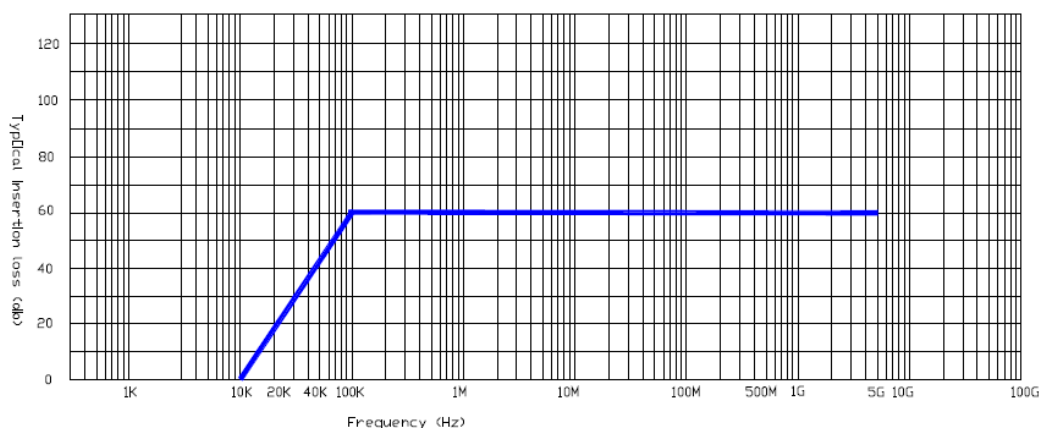


Fixing Holes M6
Product Height 60mm

All Dimensions in
mm



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A4C19 CP&F Part No: SCPVTEMPEST16A4C19	19" Rack Mount Filter, 4 x C19 Sockets Maximum 16A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 16A6SRM For 19" Rack

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description



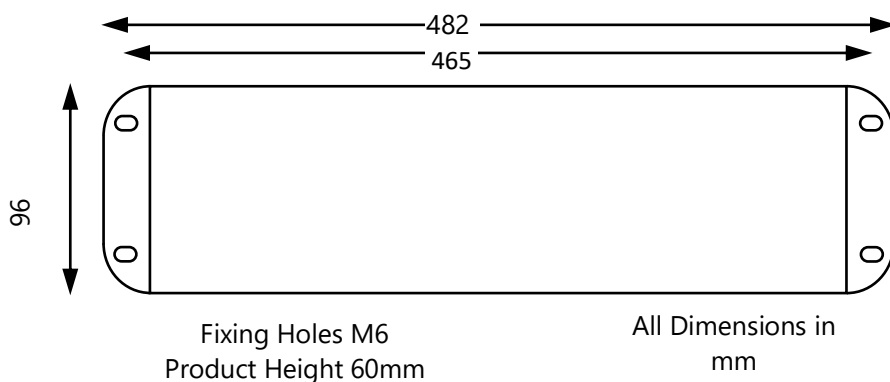
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable for input connectivity, 6 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded aluminium
Finish	Powder coated

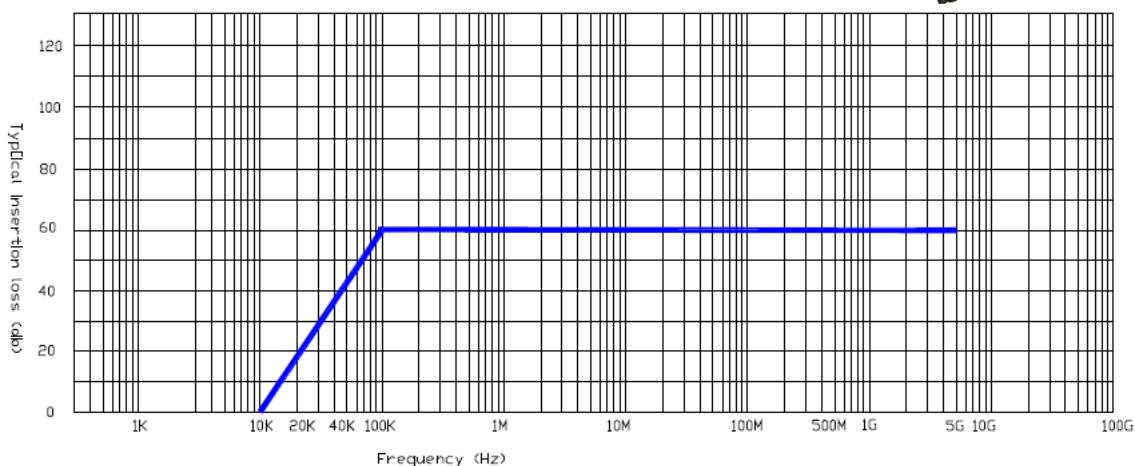
Dimensional Data



19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV-TEMPEST-16A6SRM CP&F Part No: SCPVTEMPEST16A6SRM	19" Rack, 16A Single Phase, 6 x 13A Socket 230V Filter

SCPV – TEMPEST -16A8C19 For 19” Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description



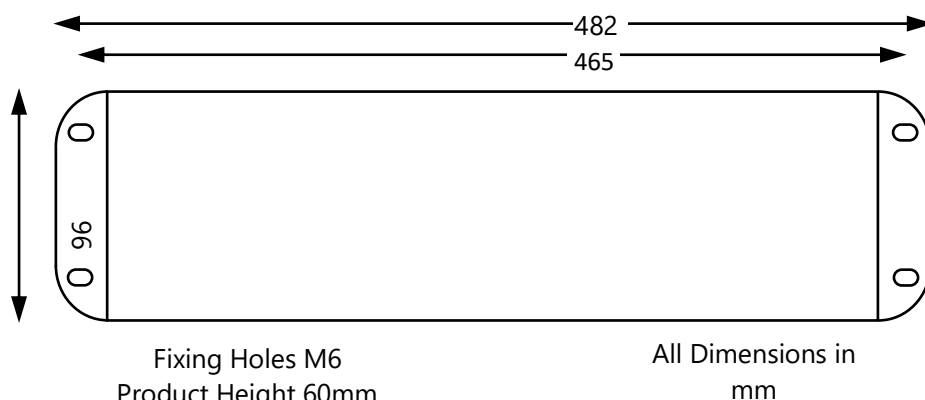
- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core, shielded cable, 8 x 16A C19 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

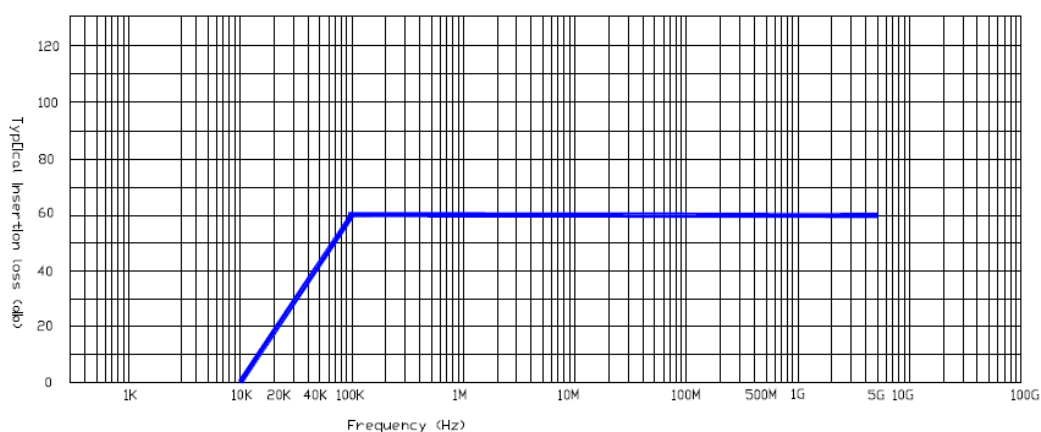
Dimensional Data



19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A8C19 CP&F Part No: SCPVTEMPEST16A8C19	19" Rack Mount Filter, 8 x C19 Sockets Maximum 16A Single Phase 230V, Pluggable Tempest Filter

SCPV – TEMPEST -16A8C19-5 For 19” Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description



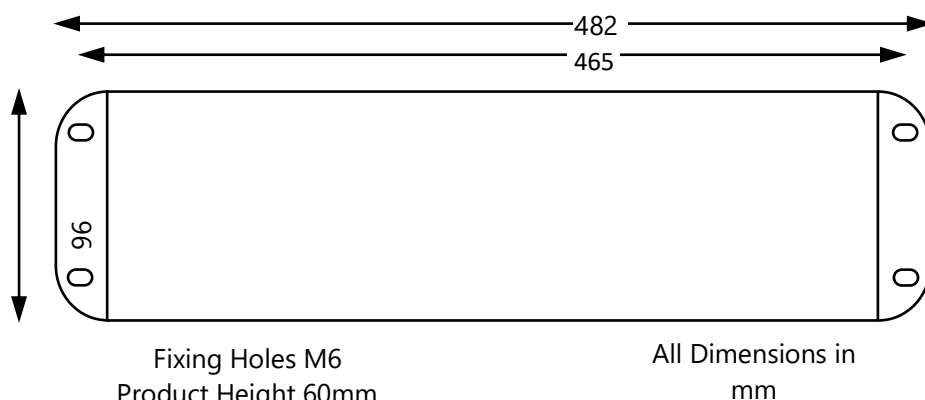
- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **5m, 3 core, shielded cable, 8 x 16A C19 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

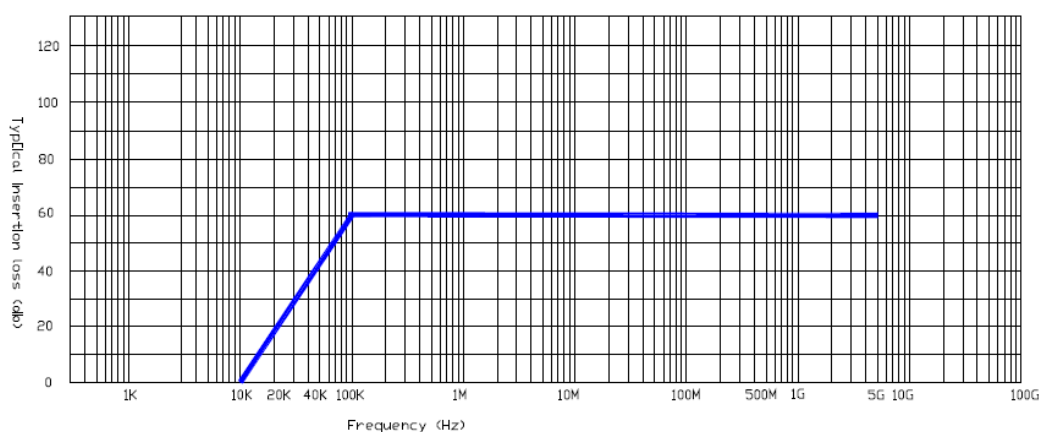
Dimensional Data



19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A8C19-5 CP&F Part No: SCPVTEMPEST16A8C19-5	19" Rack Mount Filter, 8 x C19 Sockets Maximum 16A Single Phase 230V, Pluggable Tempest Filter 5 Metre cable

SCPV - TEMPEST -16A8C19 -With 16A Commando Plug For 19” Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.



The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.

Description

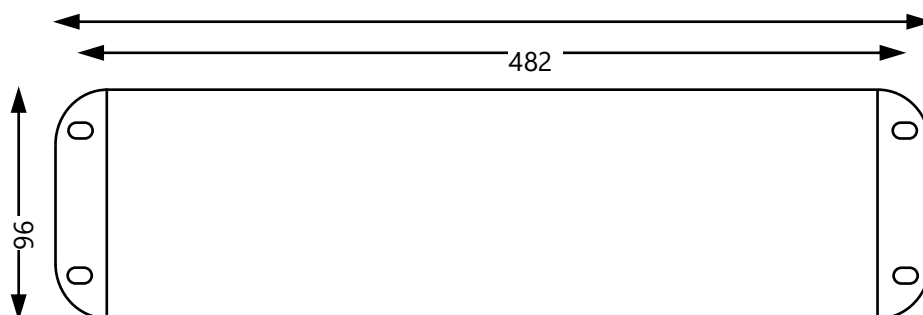
- 19" Rack Mountable Filter with 16A Commando plug
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **8 x 16A C19 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminum
Finish	Powder coated

Dimensional Data



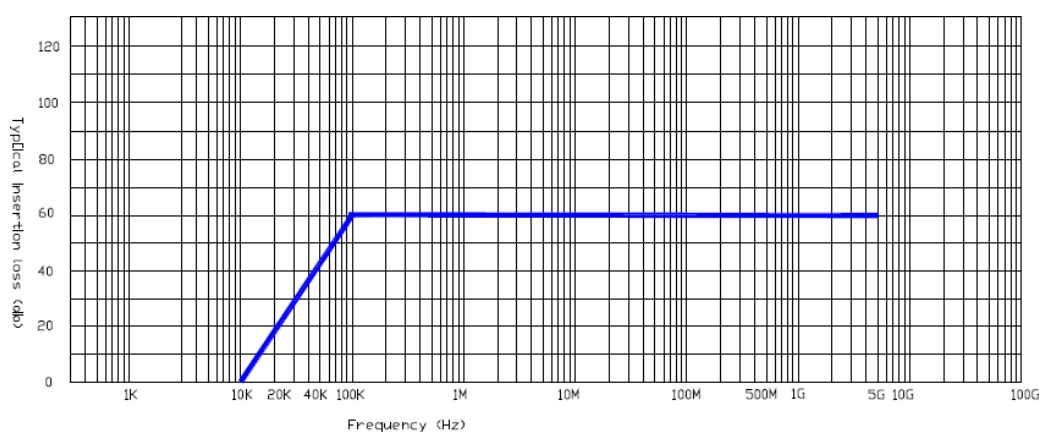
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A8C19-COM CP&F Part No: SCPVTEMPEST16A8C19-COM	19" Rack Mount Filter, 8 x C19 Sockets Maximum 16A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST -16A12C13 For 19" Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **16 Amps** under single phase operating voltage conditions.



Description

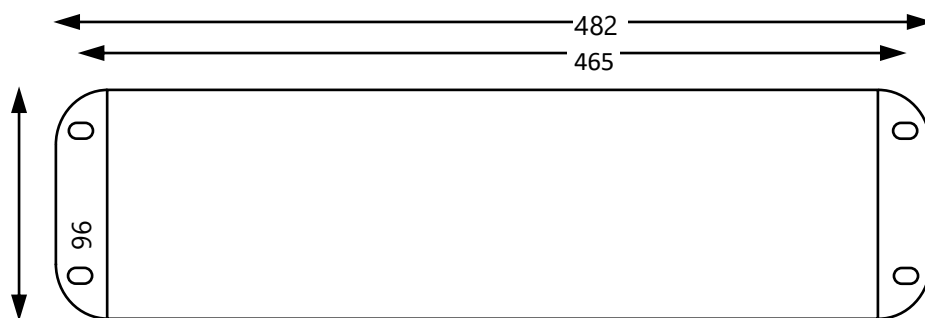
- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core, shielded cable, 12 x 10A C13 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	16A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



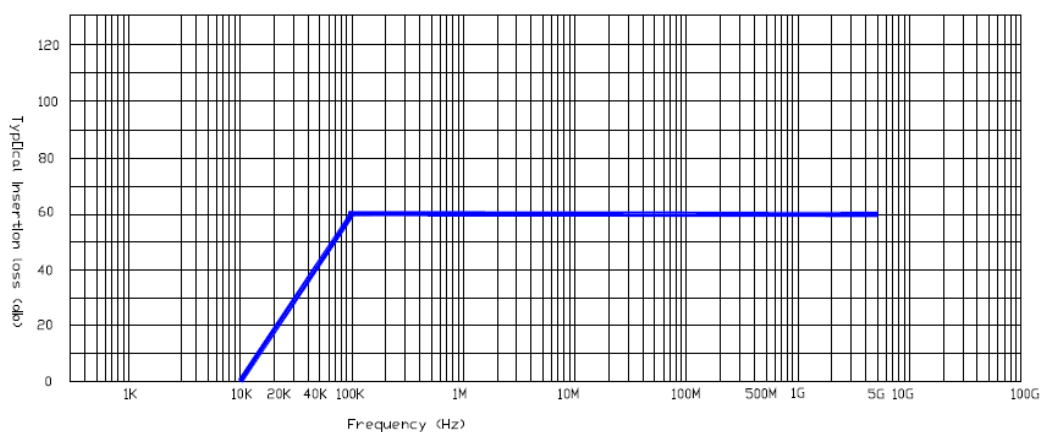
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 16A12C13 CP&F Part No: SCPVTEMPEST16A12C13	19" Rack Mount Filter, 12 x C13 Sockets Maximum 16A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter - 32A4SRM For 19" Rack

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

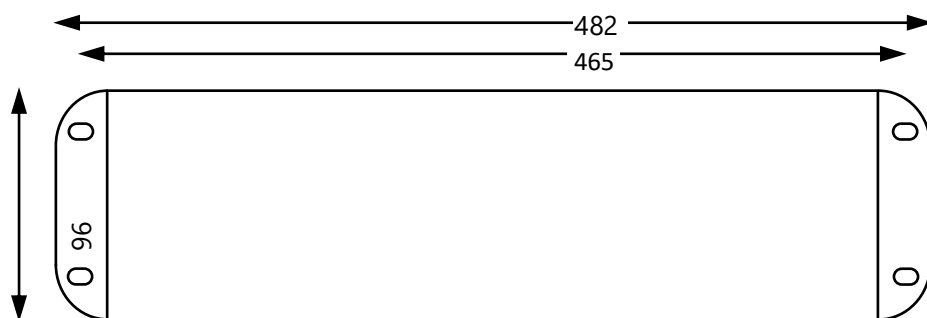
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded flex cable for input & output connectivity, 4 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded aluminium
Finish	Powder coated

Dimensional Data



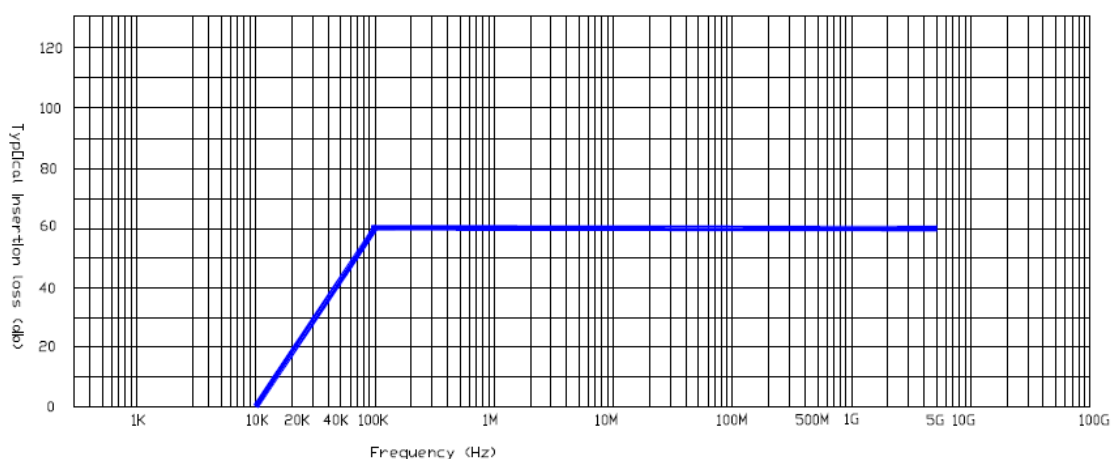
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV-TEMPEST-32A4SRM CP&F Part No: SCPVTEMPEST32A4SRM	19" Rack, 32A Single Phase, 4 x 13A Socket 230V Filter

SCPV - TEMPEST -32A4C19 For 19” Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description



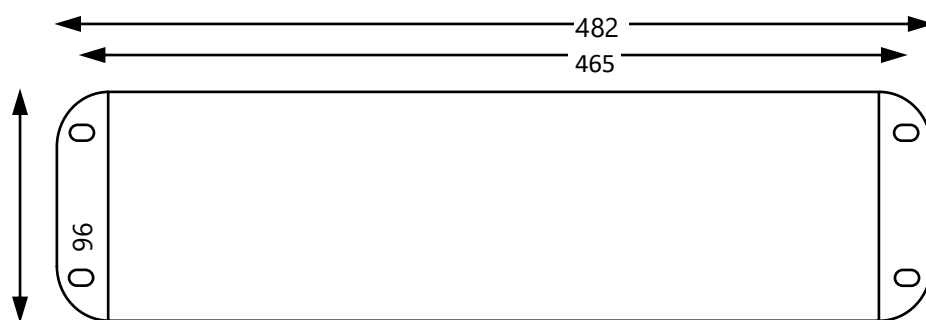
- 19" Rack Mountable Filter including 32A MCB
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **4 x 16A C19 socket outlets and 32A MCB**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



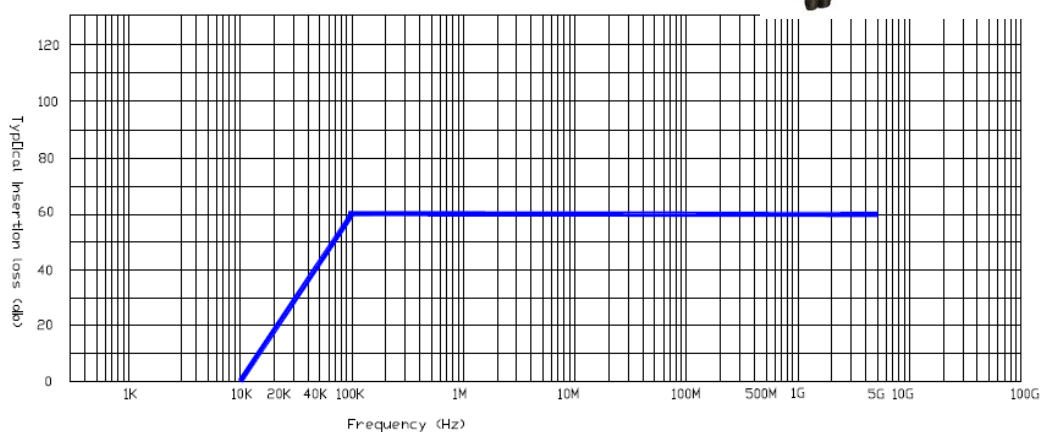
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A4C19 CP&F Part No: SCPVTEMPEST32A4C19	19" Rack Mount Filter, 4 x C19 Sockets Maximum 32A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST -32A4C19AA For 19" Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

- 19" Rack Mountable Filter including 32A MCB
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **4 x 16A C19 socket outlets and 2*16A MCB**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

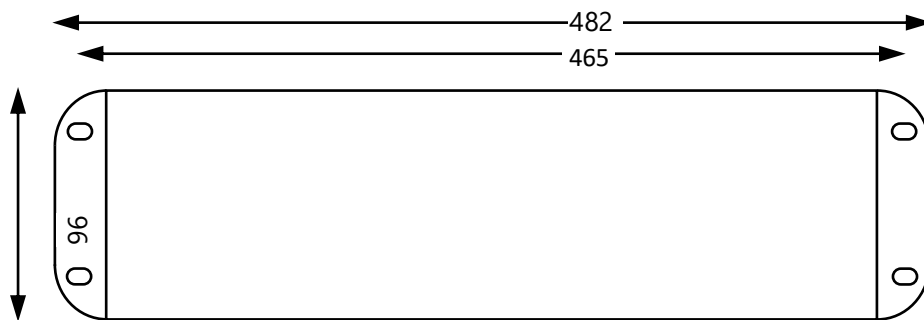
Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data

19" Rack Mount

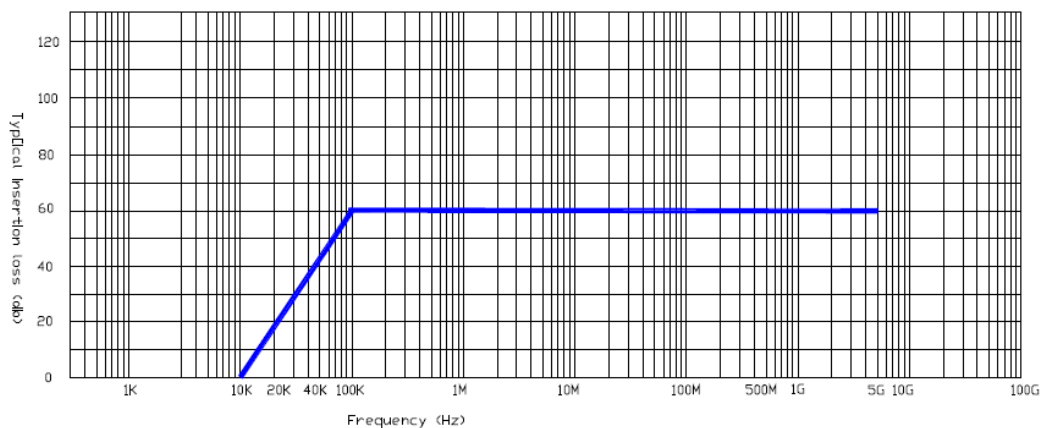


Fixing Holes M6
Product Height 60mm

All Dimensions in
mm



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A4C19AA CP&F Part No: SCPVTEMPEST32A4C19AA	19" Rack Mount Filter, 4 x C19 Sockets Maximum 32A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST -32A4C19CU For 19" Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description

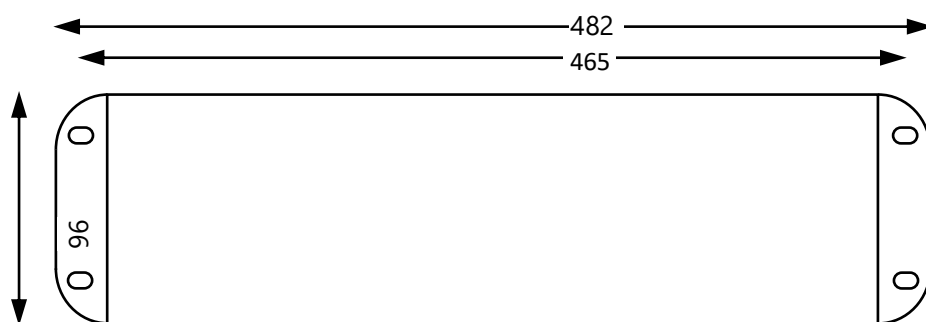
- 19" Rack Mountable Filter including 32A MCB
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **4 x 16A C19 socket outlets and 32A MCB with Nema plug**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



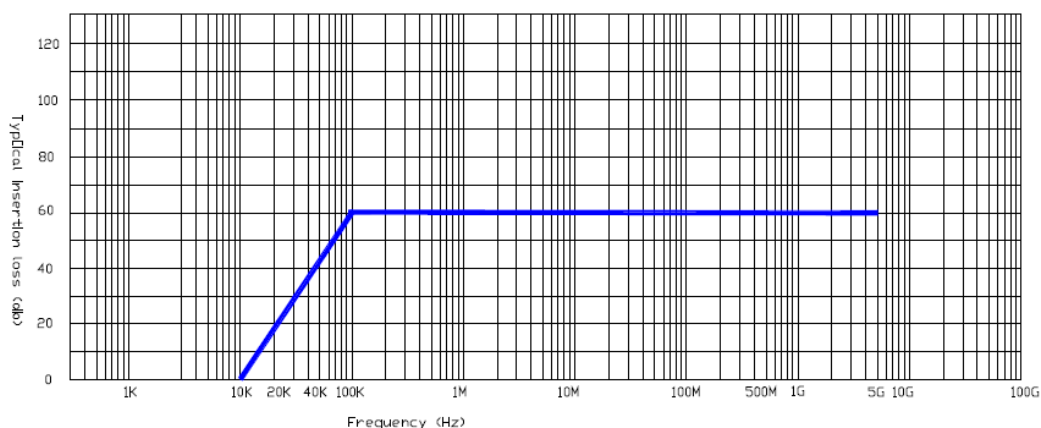
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A4C19CU	19" Rack Mount Filter, 4 x C19 Sockets Maximum 32A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST -32A8C19 For 19” Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



Description



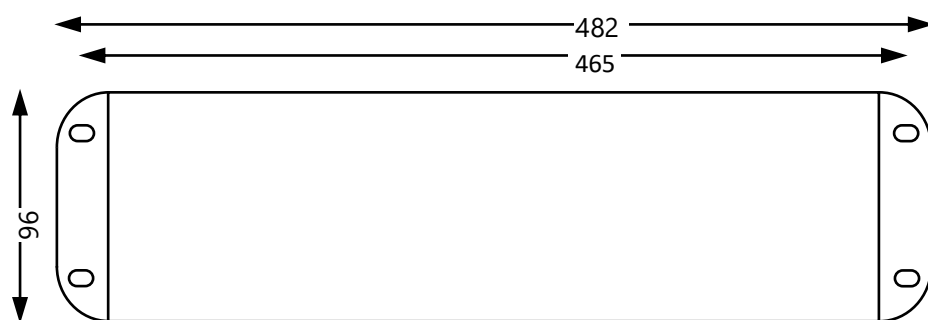
- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core shielded cable, 8 x 32A C19 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

Dimensional Data



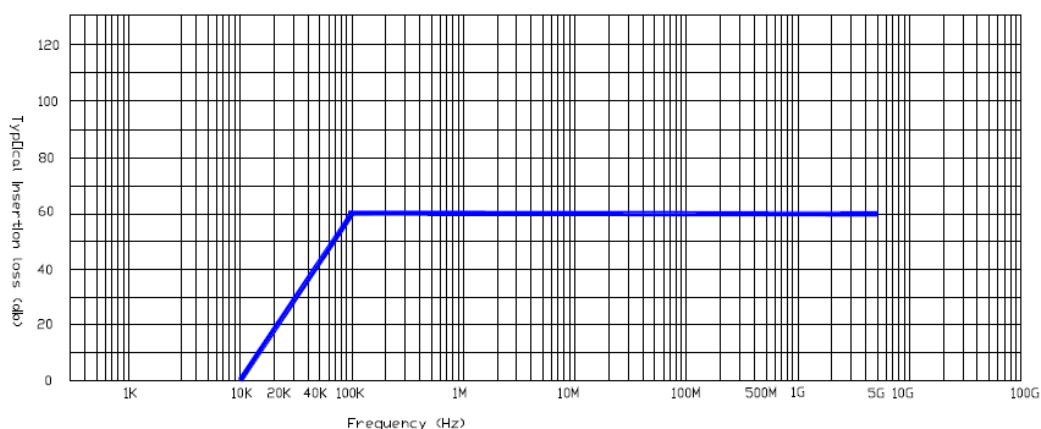
Fixing Holes M6
Product Height 60mm

All Dimensions in
mm

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A8C19 CP&F Part No: SCPVTEMPEST32A8C19	19" Rack Mount Filter, 8 x C19 Sockets Maximum 32A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST - 32A12C13 For 19" Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of **32 Amps** under single phase operating voltage conditions.



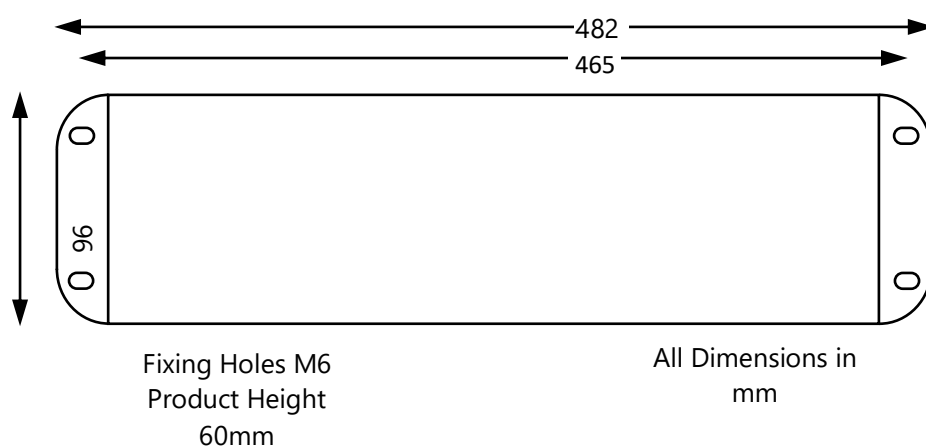
Description

- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m cable with 32A Commando input plug**
- **12 x 10A C13 socket outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant - Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

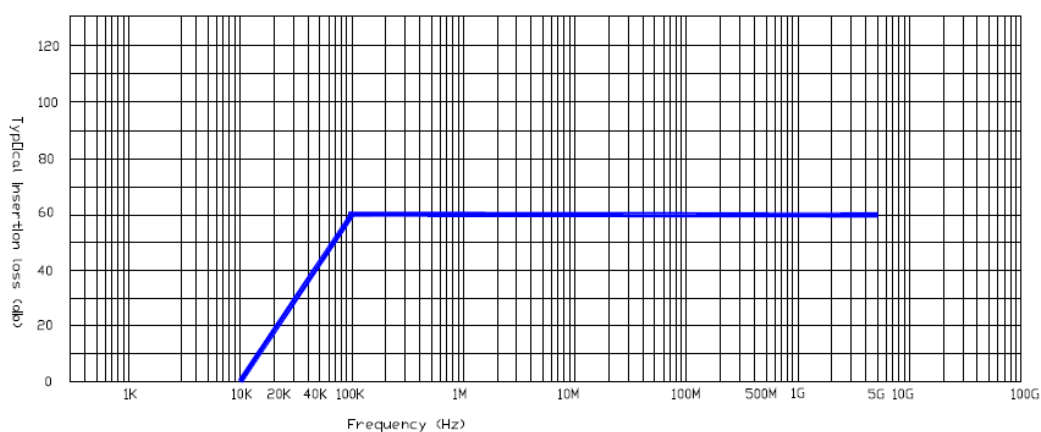
Dimensional Data



19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A12C13 CP&F Part No: SCPVTEMPEST32A12C13	19" Rack Mount Filter, 12 x C13 Sockets Maximum 32A Single Phase 230V, Pluggable Tempest Filter

SCPV - TEMPEST -32A19 19"- 2U

Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The Silicon CPV filter come in as a **4-wire option** with current ratings of up to **32A per phase**.



Front mounted connectors



Rear mounted connectors

CE  RoHS



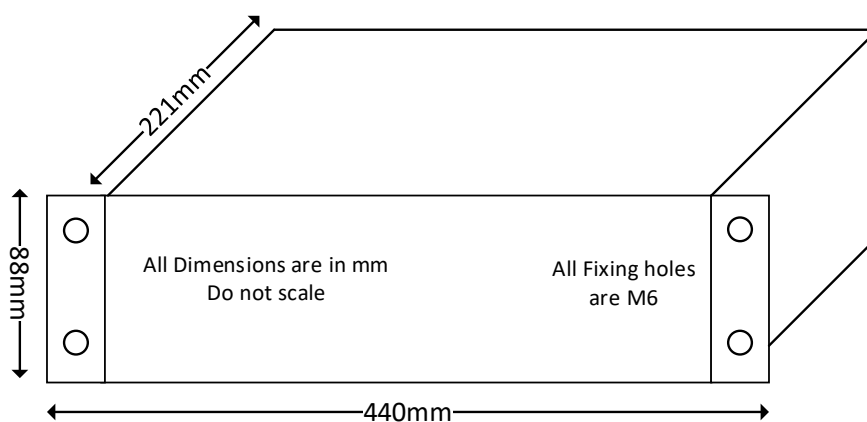
Description

- 19" - 2U Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 100dB from 14kHz to 18GHz
- **Input panel mount IEC 60309 3P+N+E 6h 32A (4P5W) Plug**
- **Output panel mount IEC 60309 3P+N+E 6h 32A (4P5W) Socket**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 4-wire option with current ratings of up to 32A per phase
- UKCA - CE compliant - 3 phase nominal input voltage 400VAC
- 5-year warranty
- Filters comply with basic requirements of the EMC directive 2014/30/EU

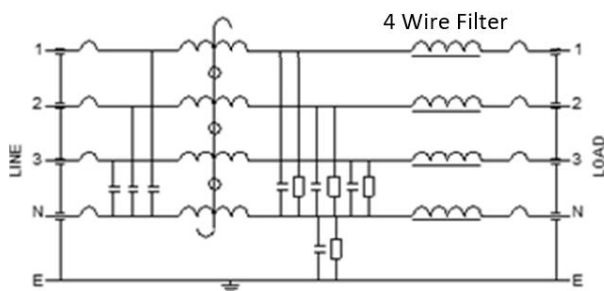
Ratings and Characteristics

Rated Voltage	400V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A per phase	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminium
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

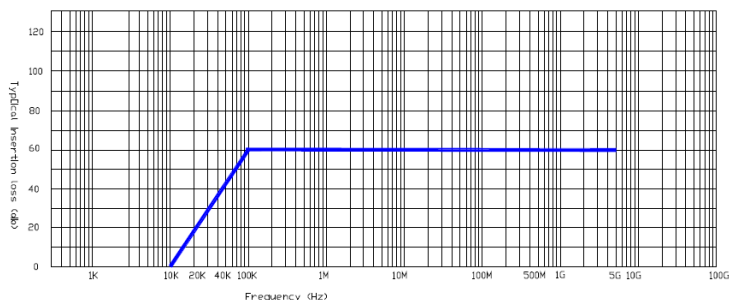
Dimensional Data



Schematic



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A19 CP&F Part No: SCPVTEMPEST32ACPR (Rear mount) CP&F Part No: SCPVTEMPEST32ACPF (Front mount)	19"-2U Rack Mount 3 phase, 32A Filter, with panel mount IEC 60309 3P+N+E 6h 32A (4P5W) Plug and socket

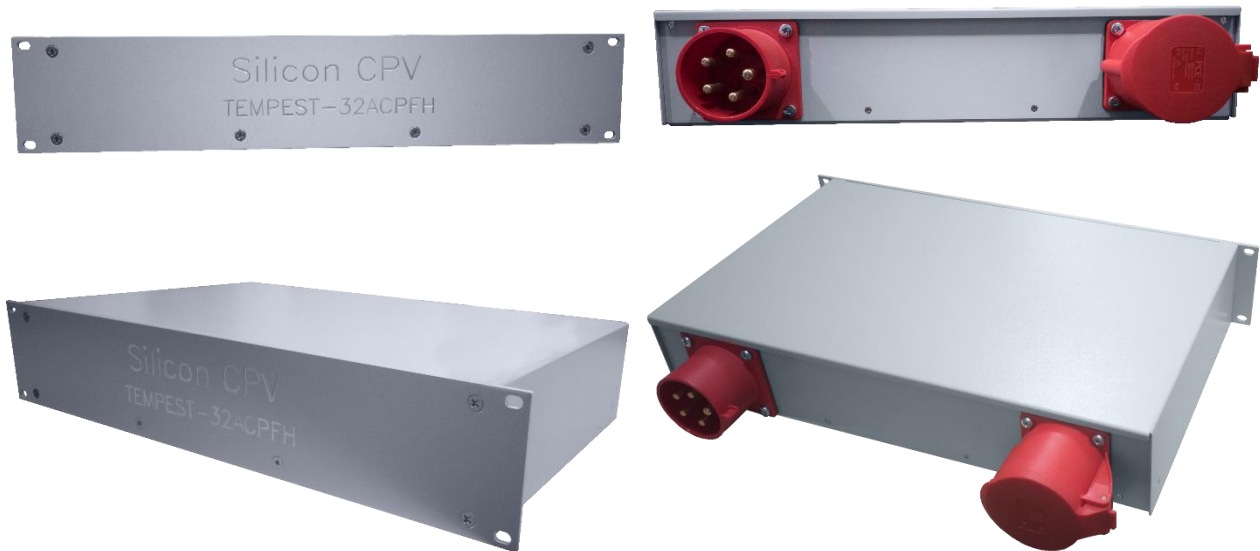
SCPV – TEMPEST-32ACPF/H 19”- 2U Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The Silicon CPV filter come in as a 4-wire 3 phase with current ratings of up to 32A per phase with HEMP protection as an option.



Description

- 19" – 2U Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **Input panel mount IEC 60939-2-2005/AMD1:2023 3P+N+E 6h 32A (4P5W) Plug**
- **Output panel mount IEC 60939-2-2005/AMD1:2023 3P+N+E 6h 32A (4P5W) Socket**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 4-wire 3 phase with current ratings of up to 32A per phase
- UKCA - CE compliant – 3 phase nominal input voltage 440VAC
- 5-year warranty
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- Optional HEMP Protection E1/ E2 pulses



Ratings and Characteristics

Rated Voltage	440V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A per phase
Earth Leakage Current @50Hz	< 3.0mA per phase
Max Temp Rise @Full Load	<35°C
Weight Kg (approx.)	8

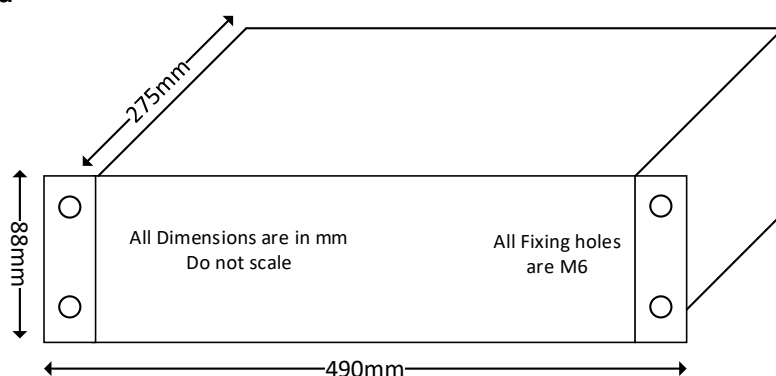
Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	2U Rack mount
Finish	Powder coated

Silicon CPV filter meet or exceed the performance and safety criteria defined in the following standards:

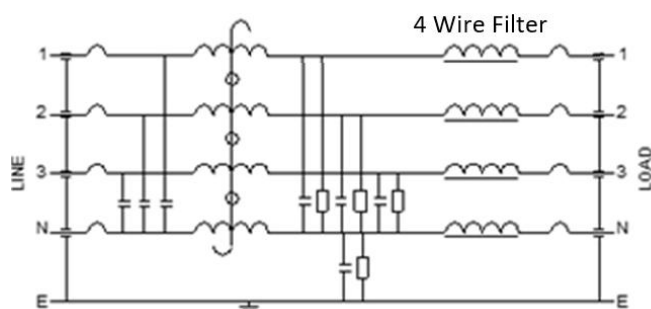
UL1283
LVD 2014/35/EU
NATO STANAG 1008 Ed.9 shipboard supplies
DEF-STAN 59-411/MIL-STD-461
RoHS (2011/65/EU) & LVD (2014/35/EU)

UKCA & CE
Mil-F-15733
Mil-Std-220C
CISPR17:2011/BS EN 55017:2011

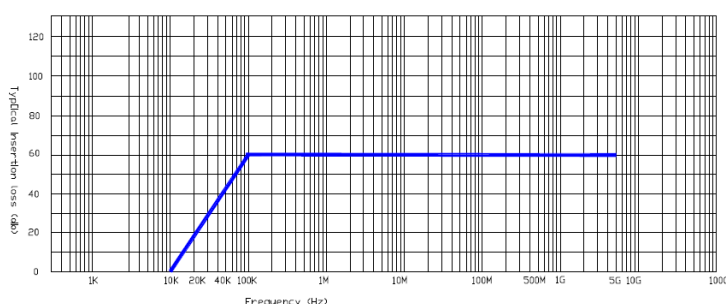
Dimensional Data



Schematic



Performance Characteristics and Insertion Loss Curves



***Schematic for illustration purposes only**

Part No and Ordering Information

Order Part No	Product Description
SCPVTEMPEST32ACPF (without HEMP)	19"-2U Rack Mount 3 phase, 32A Filter, with panel mount IEC 60939-2-2005/AMD1:2023
SCPVTEMPEST32ACPFH (with HEMP)	3P+N+E 6h 32A (4P5W) Plug and socket. Optional HEMP Protection E1/ E2 pulses

SCPV - TEMPEST 19"- 3U Pluggable Rack Mount Filter

Silicon CPV's 19" Rack Mount TEMPEST pluggable filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The Silicon CPV filter come in as a **4-wire option** with current ratings of up to **32A per phase**.



Front mounted connectors



Rear mounted connectors

Description



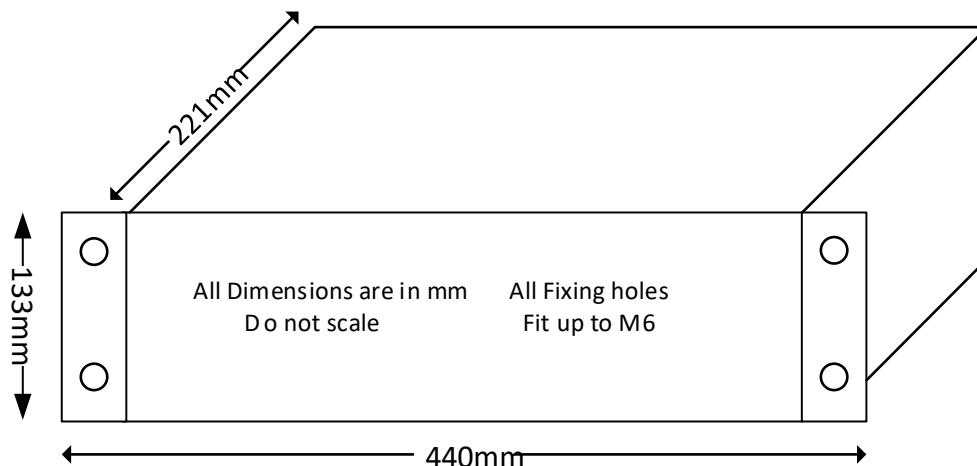
- 19" - 3U Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 100dB from 14kHz to 18GHz
- **Input panel mount IEC 60309 3P+N+E 6h 32A (4P5W) Plug**
- **Output panel mount IEC 60309 3P+N+E 6h 32A (4P5W) Socket**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 4-wire option with current ratings of up to 32A per phase
- UKCA - CE compliant - 3 phase nominal input voltage 400VAC
- 5-year warranty
- Filters comply with basic requirements of the EMC directive 2014/30/EU

Ratings and Characteristics

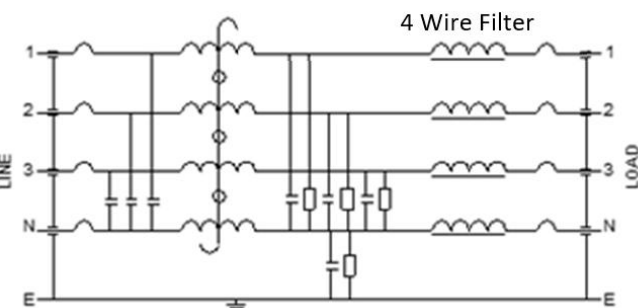
Rated Voltage	400V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A per phase
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminium
Finish	Powder coated

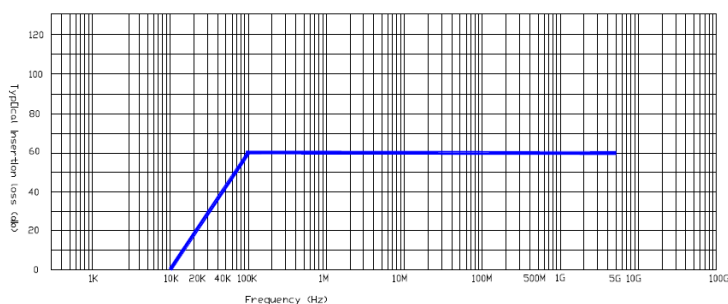
Dimensional Data



Schematic



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV - TEMPEST - 32A19 CP&F Part No: SCPVTEMPEST32ACPR (Rear mount) CP&F Part No: SCPVTEMPEST32ACPF (Front mount)	19"-3U Rack Mount 3 phase, 32A Filter, with panel mount IEC 60309 3P+N+E 6h 32A (4P5W) Plug and socket

SCPV - TEMPEST - 16A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant



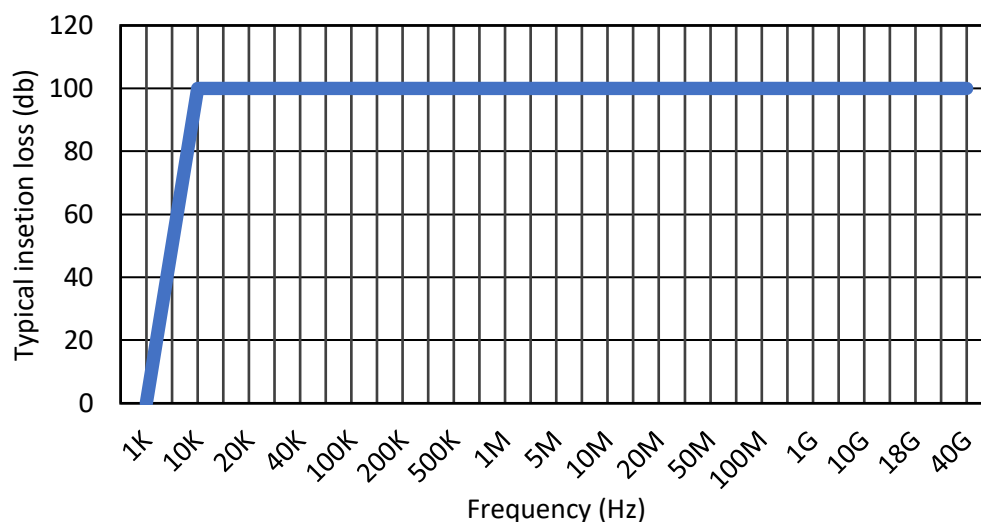
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
16A2SR	16	230	2	275	560,175,105	<3 mA	<4 mA	Single	5	75J opt
16A4SR	16	400	4	520	560,175,105	<3 mA	<4 mA	Three	5	75J opt

Ratings and Characteristics

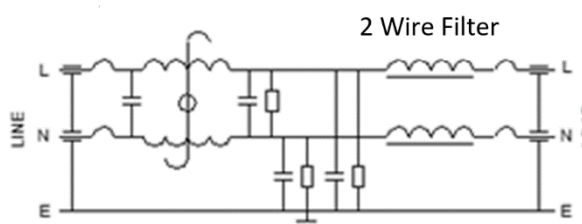
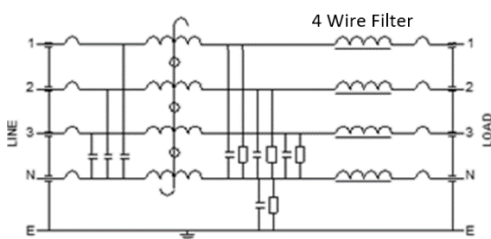
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 16A	Bolt size M5
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 16A	2 wire 5	4 wire 10

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD16A2SR	SCPV - TEMPEST Shielded Room 16A 2 Wire Filter Single Phase
SCPVSHIELD16A4SR	SCPV - TEMPEST Shielded Room 16A 4 Wire Filter Three Phase

SCPV - TEMPEST - 32A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant

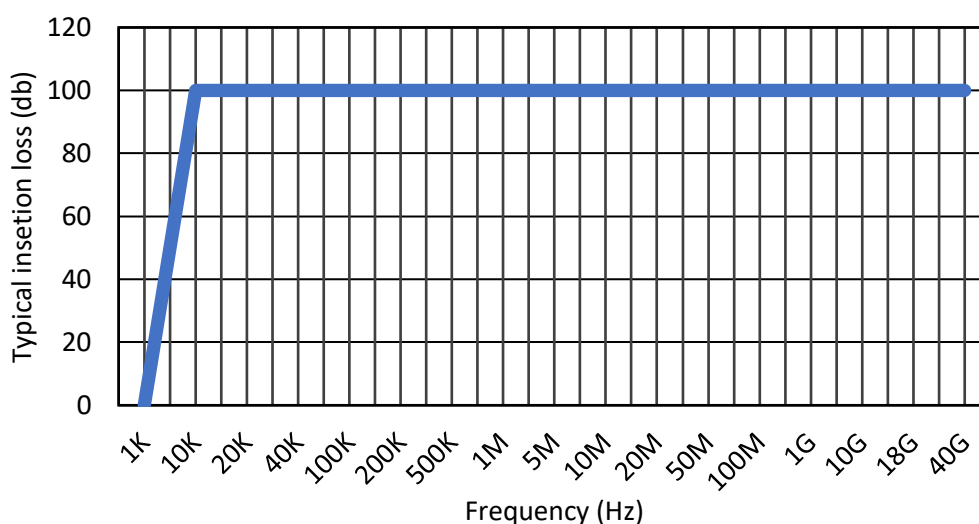
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
32A2SR	32	230	2	275	560,175,105	<3 mA	<4 mA	Single	3	75J opt
32A4SR	32	400	4	520	560,175,105	<3 mA	<4 mA	Three	3	75J opt

Ratings and Characteristics

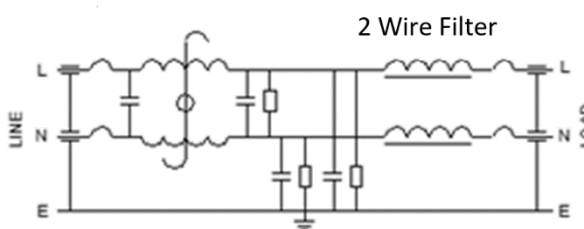
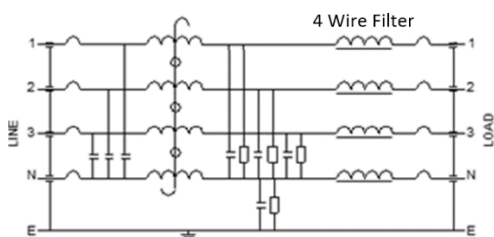
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 32A	Bolt size M6
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 32A	2 wire 9	4 wire 10

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD32A2SR	SCPV - TEMPEST Shielded Room 32A 2 Wire Filter Single Phase
SCPVSHIELD32A4SR	SCPV - TEMPEST Shielded Room 32A 4 Wire Filter Three Phase

SCPV - TEMPEST - 63A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant

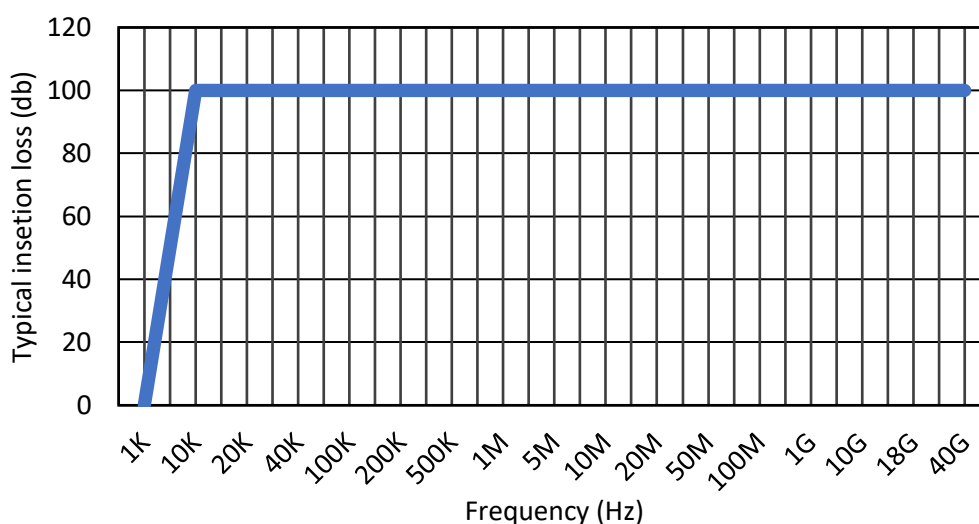
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
63A2SR	63	230	2	275	655,205,120	<3 mA	<4 mA	Single	2	75J opt
63A4SR	63	400	4	520	655,205,120	<3 mA	<4 mA	Three	2	75J opt

Ratings and Characteristics

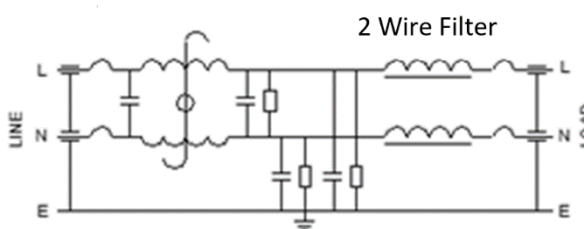
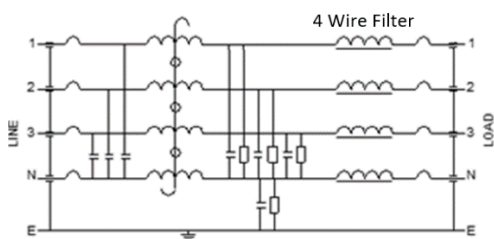
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 63A	Bolt size M8
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 63A	2 wire 9	4 wire 10

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD63A2SR	SCPV - TEMPEST Shielded Room 63A 2 Wire Filter Single Phase
SCPVSHIELD63A4SR	SCPV - TEMPEST Shielded Room 63A 4 Wire Filter Three Phase

SCPV - TEMPEST - 100A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant



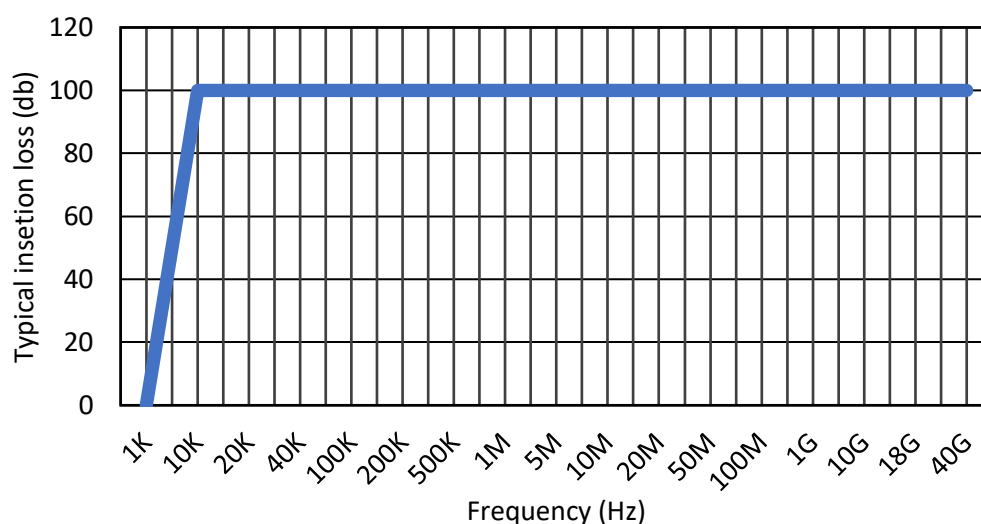
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
100A2SR	100	230	2	275	745,235,145	<3 mA	<4 mA	Single	0.7	150J opt
100A4SR	100	400	4	520	745,235,145	<3 mA	<4 mA	Three	0.7	150J opt

Ratings and Characteristics

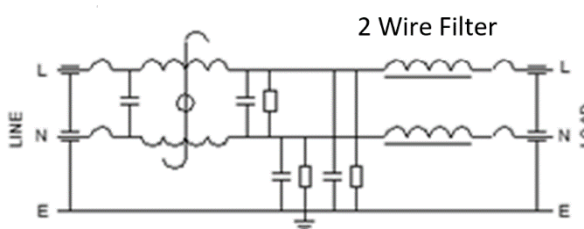
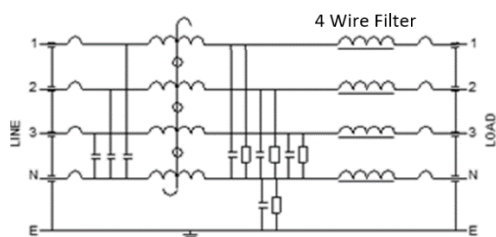
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 100A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 100A	2 wire 20	4 wire 26

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD100A2SR	SCPV - TEMPEST Shielded Room 100A 2 Wire Enhanced Filter Single Phase
SCPVSHIELD100A4SR	SCPV - TEMPEST Shielded Room 100A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 150A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant

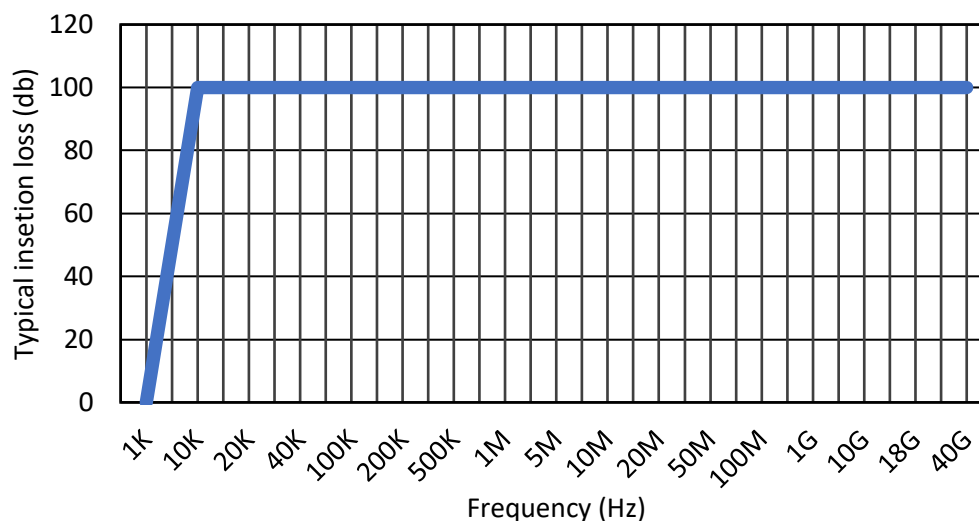
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
150A4SR	150	400	4	520	745,235,145	<3 mA	<4 mA	Three	0.3	150J opt

Ratings and Characteristics

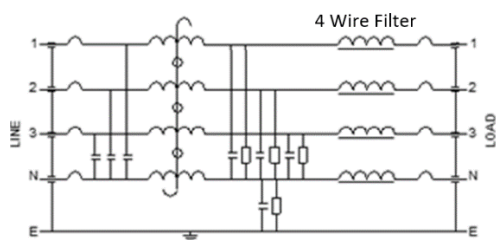
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 150A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 150A	4 wire 20

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD150A4SR	SCPV - TEMPEST Shielded Room 150A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 200A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant

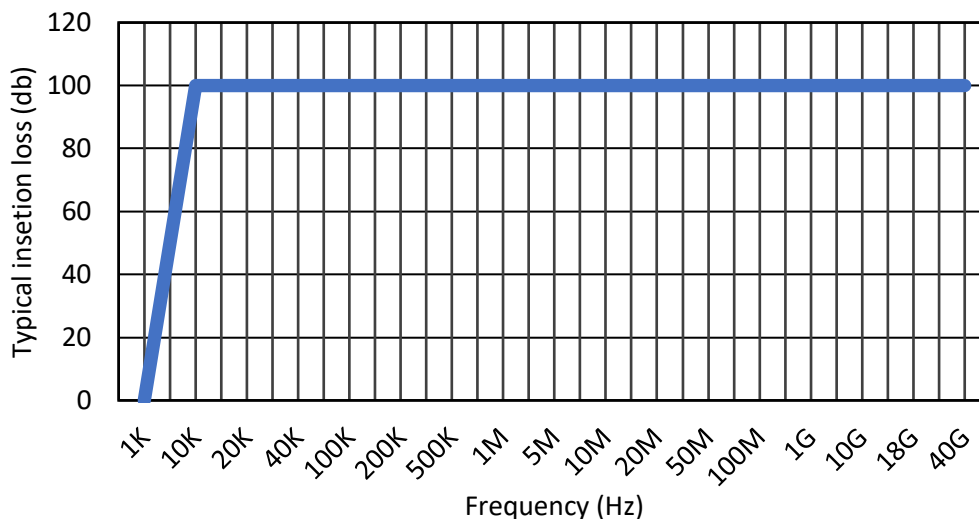
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
200A4SR	200	400	4	520	750,410,145	<3 mA	<4 mA	Three	0.3	200J opt

Ratings and Characteristics

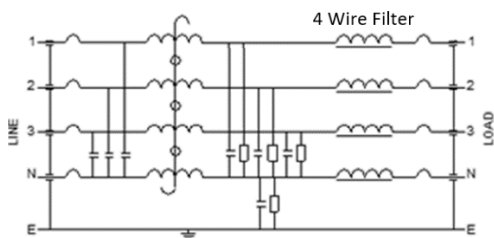
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 200A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 200A	4 wire 30

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD200A4SR	SCPV - TEMPEST Shielded Room 200A 4 Wire Filter Three Phase

SCPV - TEMPEST - 250A - Low Leakage Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant

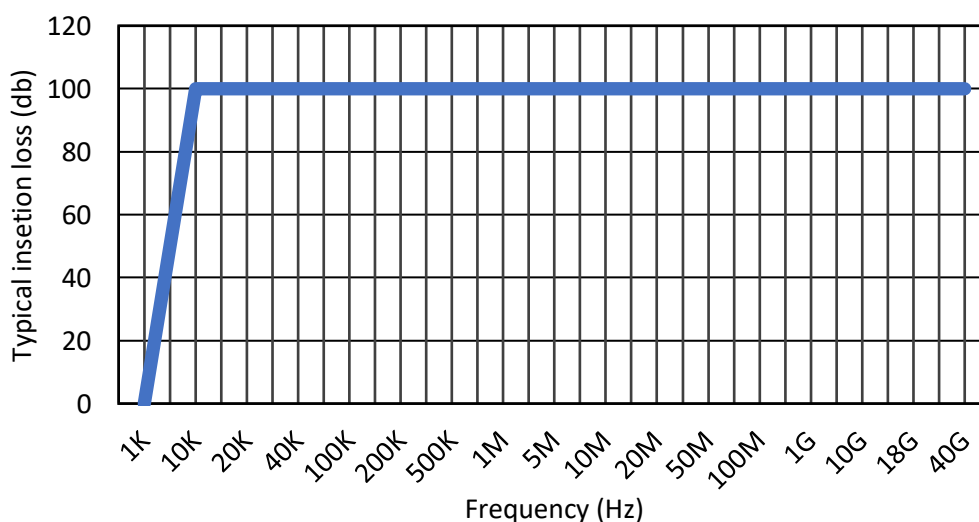
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
250A4SR	250	400	4	520	750,410,145	<3 mA	<4 mA	Three	0.3	200J opt

Ratings and Characteristics

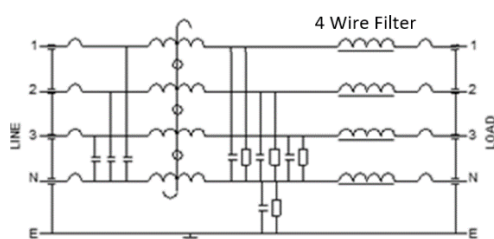
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 250A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 250A	4 wire 35

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD250A4SR	SCPV - TEMPEST Shielded Room 250A 4 Wire Filter Three Phase

SCPV - TEMPEST 16A - 14 Socket - Power Distribution Box

Silicon CPV's, 16A, 14 Socket Power Distribution Box including integral 16A TEMPEST filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product is IP66 rated, providing fourteen UK 3 pin IP66 rated sockets. Input and Output connections are provided using "commando" style plugs and sockets.

The SCPV Tempest filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Filter insertion loss of 60dB from 100kHz to 1GHz
- **Fourteen, UK 3 pin, 13A, 230V, BS1363 output sockets, IP66 rated**
- Input 16A 2P+E 230V Plug IP66 IEC 60309-1:2021
- Output 16A 2P+E 230V Socket IP66 IEC 60309-1:2021
- Input Protection 16A, 2 Pole, 30mA Type AC 2 RCD Module
- Watertight, crushproof dustproof and easy open double throw latches
- Strong polyurethane wheels with stainless steel bearings and fold down handles
- Automatic Pressure Equalization Valve - balances interior pressure, keeps water out
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- CE compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU

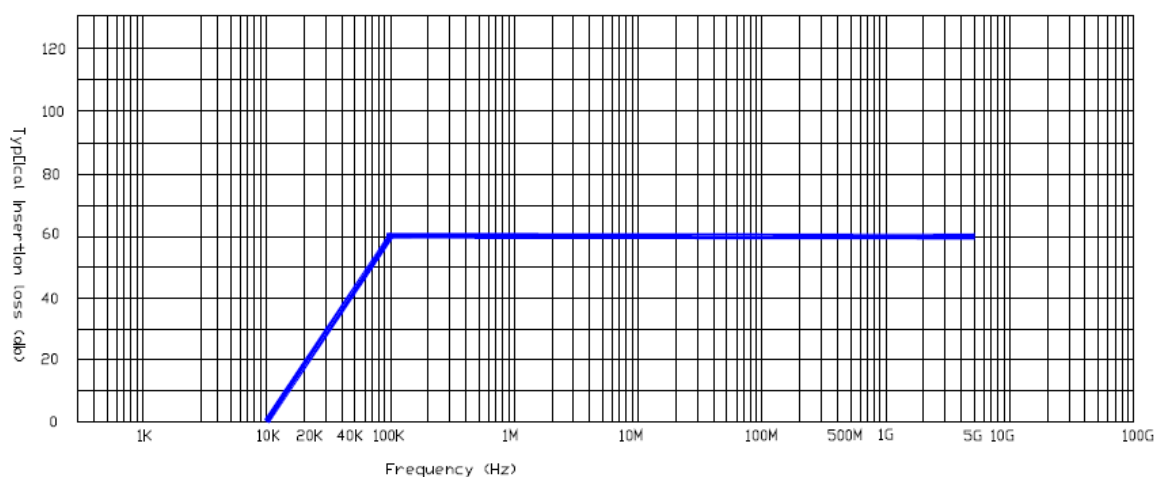
Product and Filter Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	16A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	IP66 Enclosure	Watertight, crushproof, and dustproof
Max Temp Rise @Full Load	<35°C	Case finish	Open cell core with solid wall design
IP rating	66	Weight	13Kg

Dimensional Data



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

CP&F Part No:	Product Description
SCPVTEMPEST16A14SIP66	14 Socket 16A Single Phase 230V Tempest Filter

SCPV - TEMPEST 32A - 14 Socket - Power Distribution Box

Silicon CPV's, 32A, 14 Socket Power Distribution Box including integral 32A TEMPEST filter, has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product is IP66 rated, providing fourteen UK 3 pin IP66 rated sockets. Input and Output connections are provided using "commando" style plugs and sockets.

The SCPV Tempest filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Filter insertion loss of 60dB from 100kHz to 1GHz
- **Fourteen, UK 3 pin, 13A, 230V, BS1363 output sockets, IP66 rated**
- Input 32A 2P+E 230V Plug IP66 IEC 60309-1:2021
- Output 32A 2P+E 230V Socket IP66 IEC 60309-1:2021
- Input Protection 32A, 2 Pole, 30mA Type AC 2 RCD Module
- Watertight, crushproof dustproof and easy open double throw latches
- Strong polyurethane wheels with stainless steel bearings and fold down handles
- Automatic Pressure Equalization Valve - balances interior pressure, keeps water out
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- CE compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU

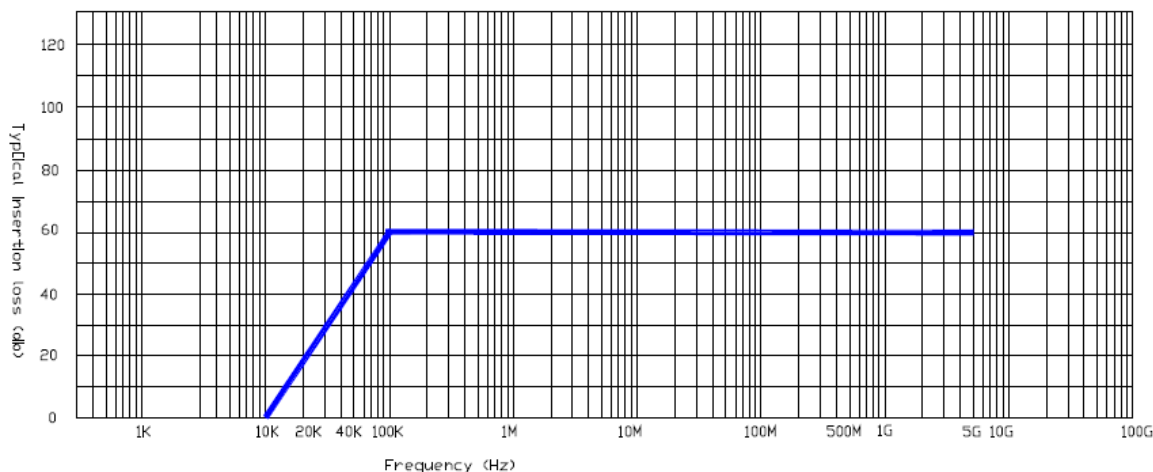
Product and Filter Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	IP66 Enclosure	Watertight, crushproof, and dustproof
Max Temp Rise @Full Load	<35°C	Case finish	Open cell core with solid wall design
IP rating	66	Weight	13Kg

Dimensional Data



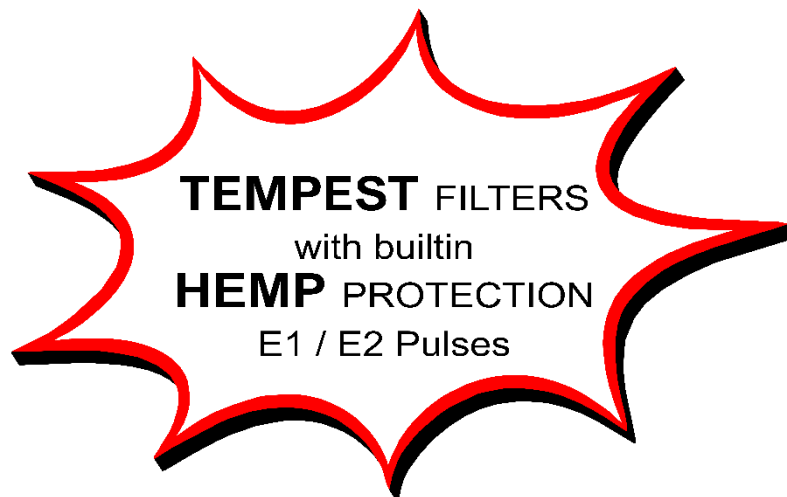
Performance Characteristics and Insertion Loss Curves



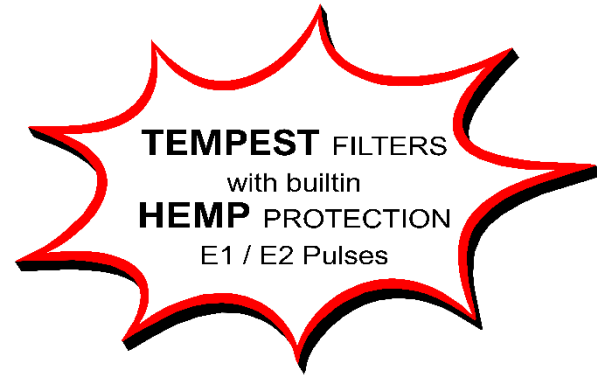
Part No and Ordering Information

CP&F Part No:	Product Description
SCPVTEMPEST32A14SIP66	14 Socket 32A Single Phase 230V Tempest Filter

HEMP TEMPEST Filters:



SCPV - TEMPEST Pluggable Filter - 13A2S -HEMP



Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 16 Amps under single phase operating voltage conditions.



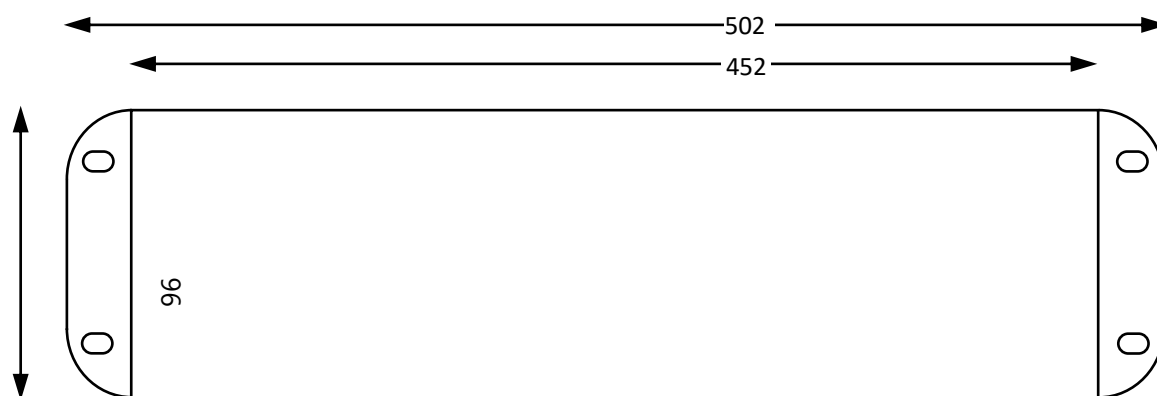
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 2 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminum enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- **HEMP protection E1/ E2 pulses**
- **Built-in current and voltage metre**

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	13A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminum
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

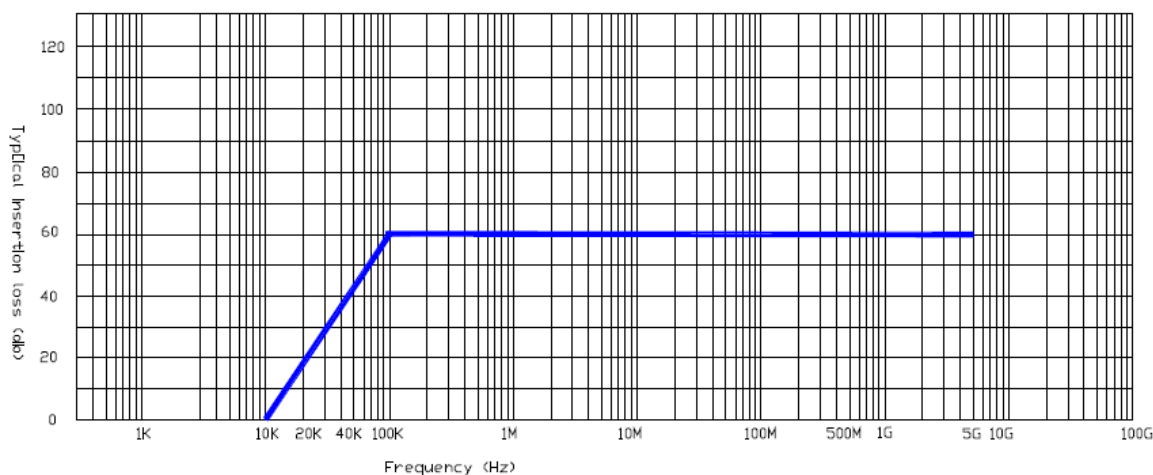
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
CP&F Part No: SCPVTEMPEST13A2SH	2 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST

Pluggable Filter -

13A4S -HEMP

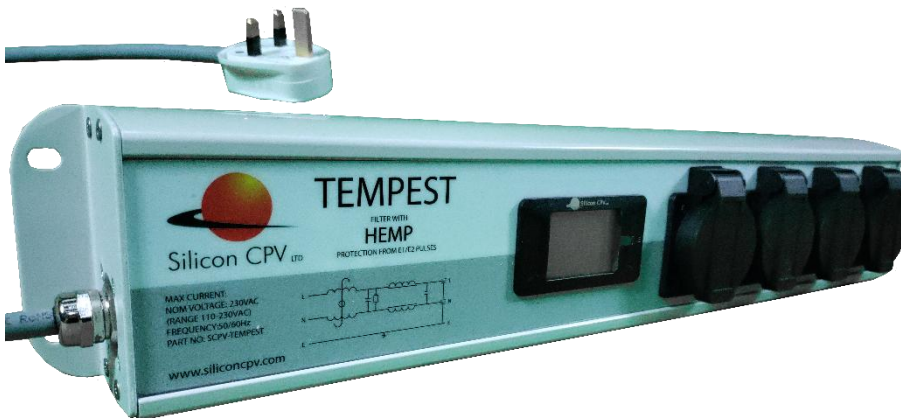
TEMPEST FILTERS
with builtin
HEMP PROTECTION
E1 / E2 Pulses

Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 13 Amps under single phase operating voltage conditions.



Description

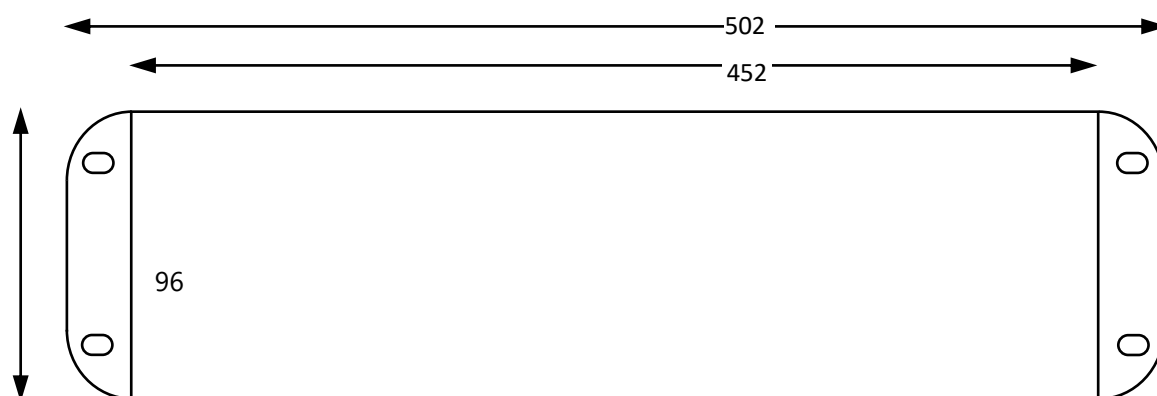
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 4 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 13A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- **HEMP protection E1/ E2 pulses**
- **Built-in current and voltage metre**

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	13A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminum
Finish	Powder coated

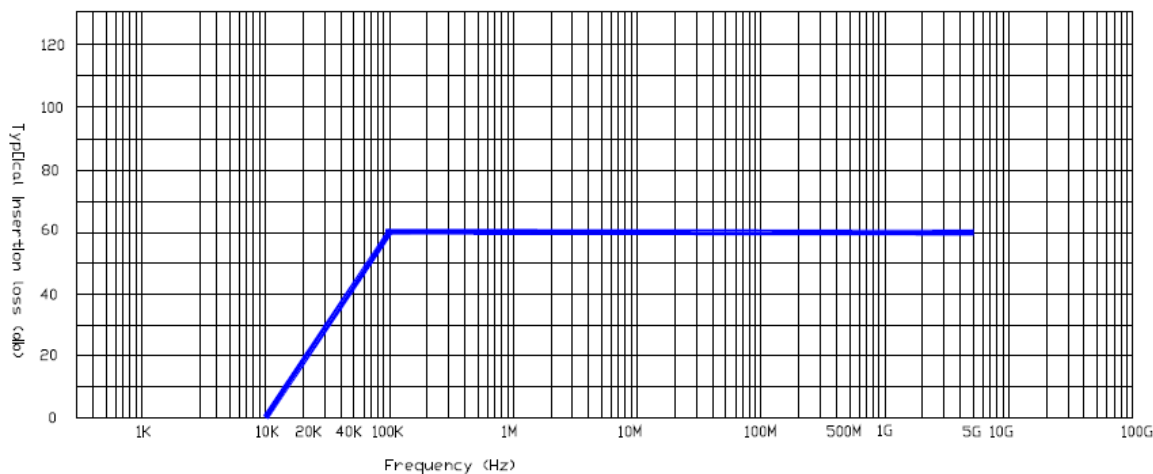
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
CP&F Part No: SCPVTEMPEST13A4SH	4 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST

Pluggable Filter -

32A2S -HEMP

TEMPEST FILTERS
with builtin
HEMP PROTECTION
E1 / E2 Pulses

Silicon CPV's 2 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



Description

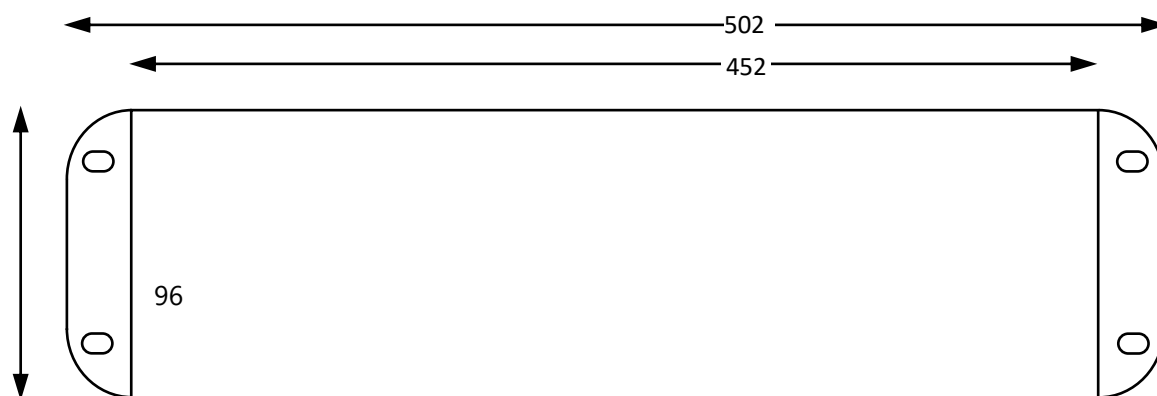


- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input & 2 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminum enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- **HEMP protection E1/ E2 pulses**
- **Built-in current and voltage metre**

Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz	Storage Temp Range	-25°C to 85°C
Test Voltage (line-earth)	2250V DC	Operating Temp Range	-20°C to 50°C
Test Voltage (line-Line)	1250V DC	Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Rated Current @50°C	32A	Discharge Time	Less than 1s to below 34V
Earth Leakage Current	Less than 3.0mA	Enclosure	Extruded Aluminum
Max Temp Rise @Full Load	<35°C	Finish	Powder coated

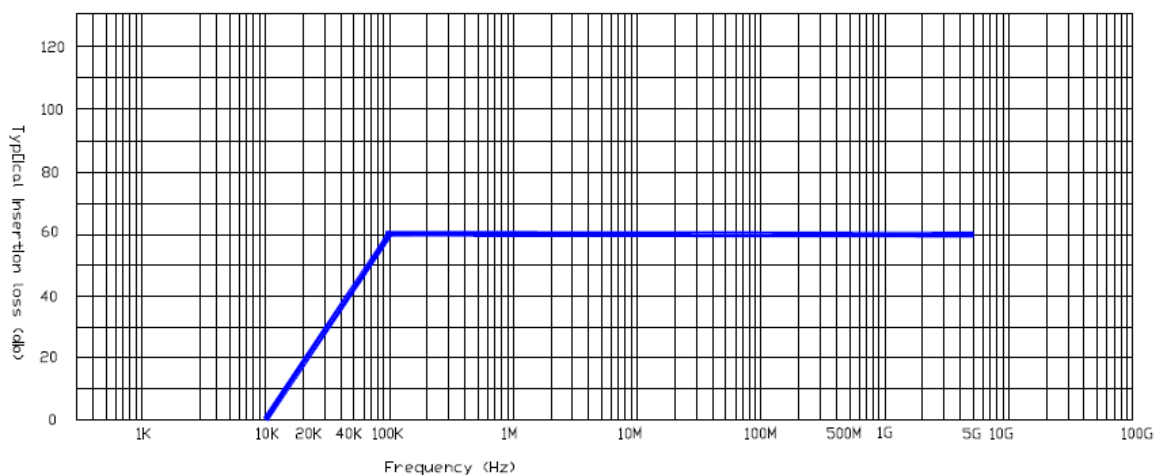
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



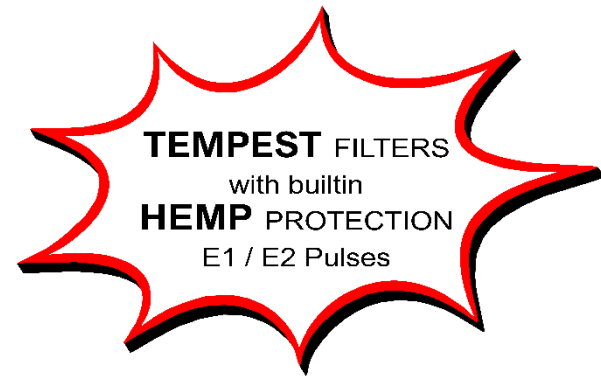
Part No and Ordering Information

Part No	Product Description
CP&F Part No: SCPVTEMPEST32A2SH	2 x BS1363 Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST

Pluggable Filter -

32A4S -HEMP

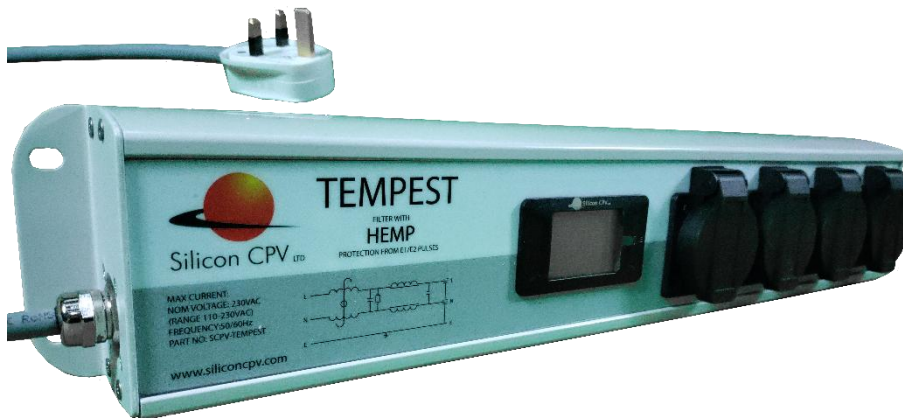


Silicon CPV's 4 socket, TEMPEST pluggable filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

The product uses ultra-reliable self-healing capacitors, in all units to deliver optimum performance across the full frequency range and under all loading conditions.

The SCPV filter has been designed for use within unprotected power environments to ensure deployment and electrical installation is as quick and simple as possible.

The product has been designed to support current ratings of 32 Amps under single phase operating voltage conditions.



Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input & 4 x BS1363 sockets outlets**
- Designed to IT equipment safety standard IEC 62368-1:2023
- Fully 360° screened input cable to maintain red/black separation to filter
- Low Smoke Zero Halogen (LSZH) rated cabling for use in sensitive areas
- Self-healing metallised plastic film capacitors
- High common & differential mode insertion loss
- Improved low frequency performance
- Powder coated aluminium enclosure
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- **HEMP protection E1/ E2 pulses**
- **Built-in current and voltage metre**

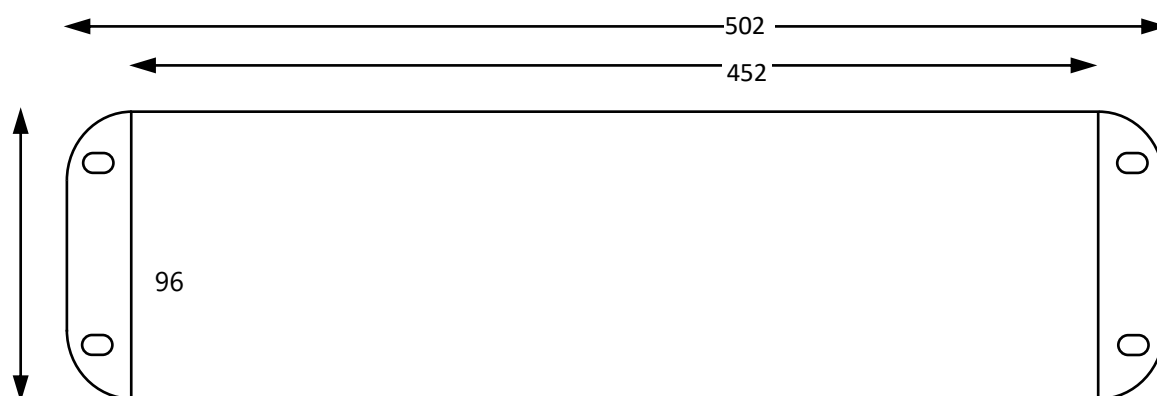


Ratings and Characteristics

Rated Voltage	230V AC 50/60Hz
Test Voltage (line-earth)	2250V DC
Test Voltage (line-Line)	1250V DC
Rated Current @50°C	32A
Earth Leakage Current	Less than 3.0mA
Max Temp Rise @Full Load	<35°C

Storage Temp Range	-25°C to 85°C
Operating Temp Range	-20°C to 50°C
Insertion Loss (50Ω Asymmetric)	60dB, 100KHz - 1GHz
Discharge Time	Less than 1s to below 34V
Enclosure	Extruded Aluminum
Finish	Powder coated

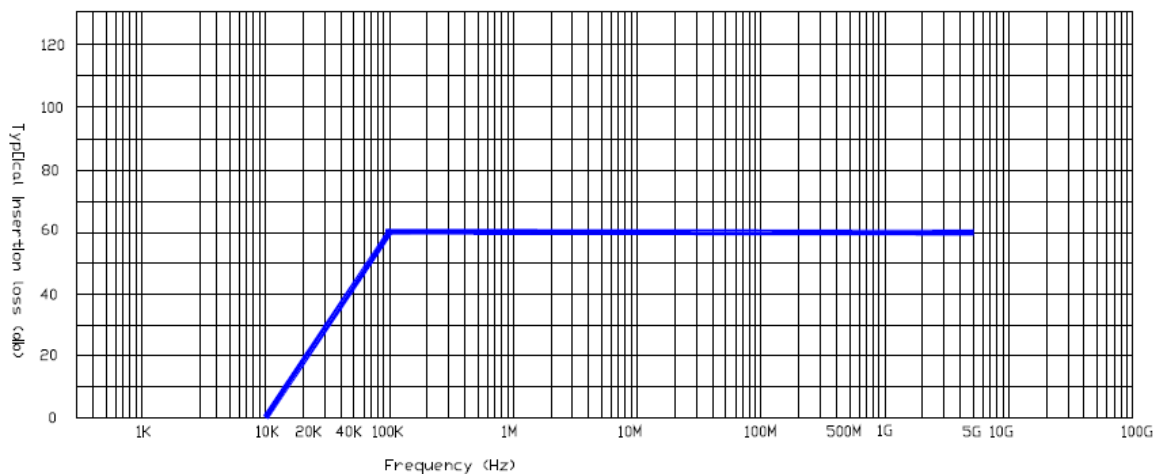
Dimensional Data



Fixing Holes M6
Product Height 60mm

All Dimensions in mm
Drawing not to Scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
CP&F Part No: SCPVTEMPEST32A4SH	4 x BS1363 Sockets, Maximum 32A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST - 16A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

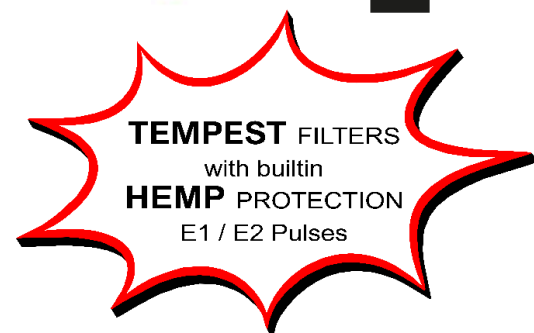
Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **HEMP Protection E1/ E2 pulses**



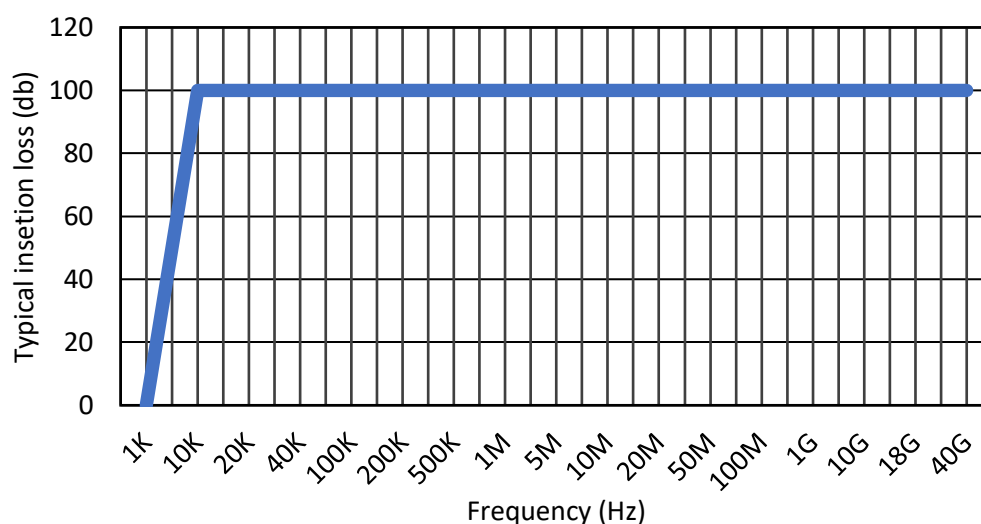
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
16A2SRH	16	230	2	275	560,175,105	<3 mA	<4 mA	Single	5	75J opt
16A4SRH	16	400	4	520	560,175,105	<3 mA	<4 mA	Three	5	75J opt

Ratings and Characteristics

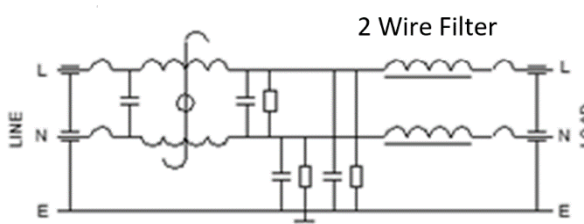
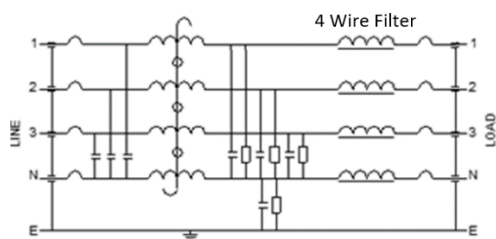
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 16A	Bolt size M5
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 16A	2 wire 5	4 wire 10

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD16A2SRH	SCPV - TEMPEST Shielded Room 16A 2 Wire Enhanced Filter Single Phase
SCPVSHIELD16A4SRH	SCPV - TEMPEST Shielded Room 16A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 32A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

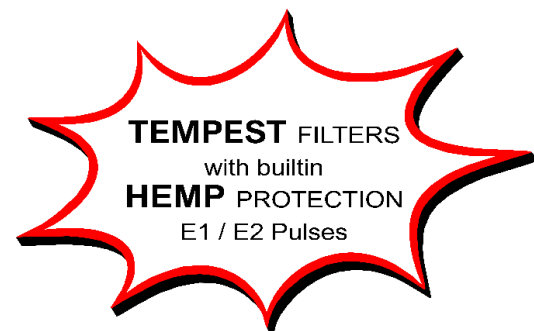
Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **HEMP Protection E1/ E2 pulses**



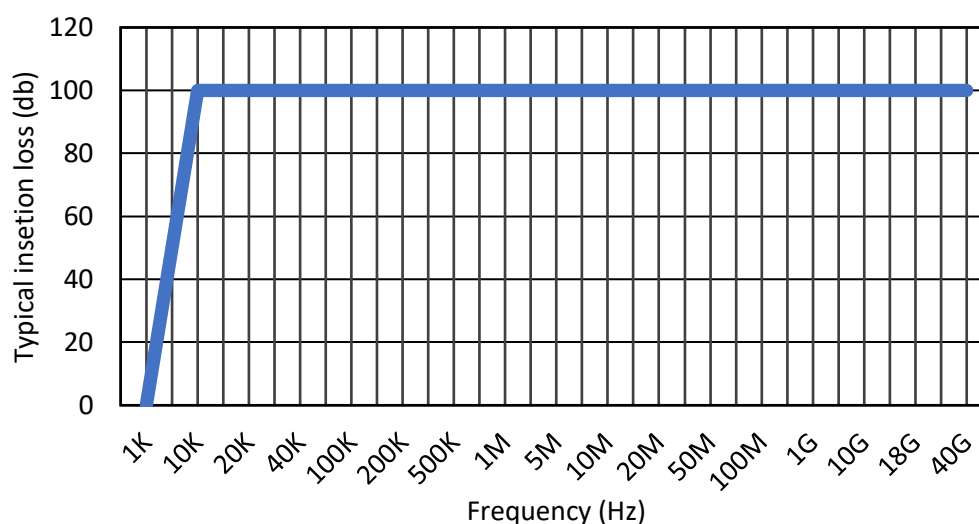
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
32A2SRH	32	230	2	275	560,175,105	<3 mA	<4 mA	Single	3	75J opt
32A4SRH	32	400	4	520	560,175,105	<3 mA	<4 mA	Three	3	75J opt

Ratings and Characteristics

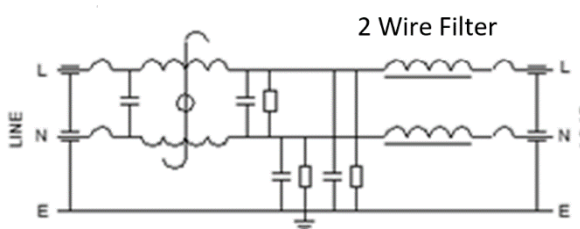
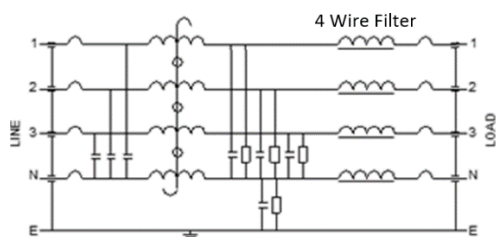
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 32A	Bolt size M6
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 32A	2 wire 9	4 wire 10

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD32A2SRH	SCPV - TEMPEST Shielded Room 32A 2 Wire Enhanced Filter Single Phase
SCPVSHIELD32A4SRH	SCPV - TEMPEST Shielded Room 32A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 63A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

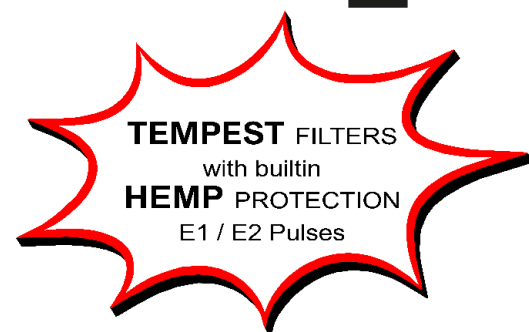
Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **HEMP Protection E1/ E2 pulses**



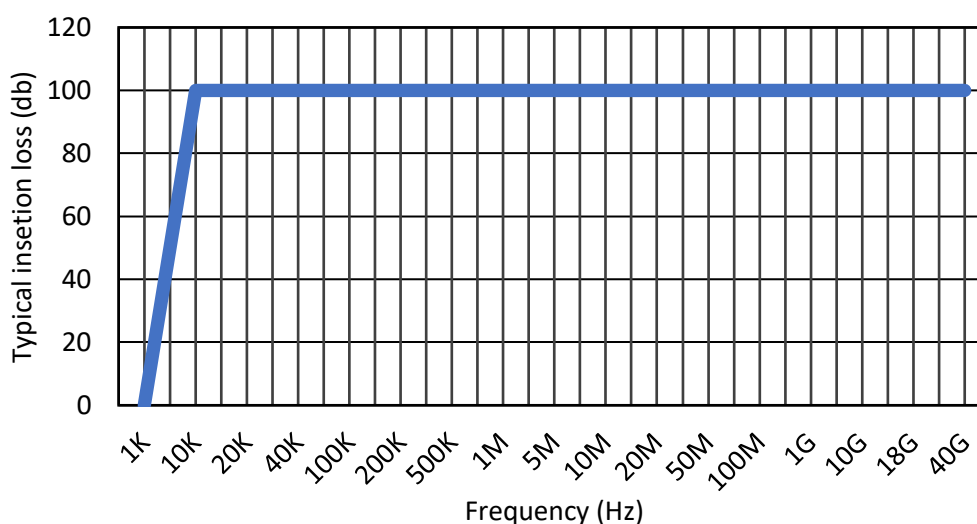
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
63A2SRH	63	230	2	275	655,205,120	<3 mA	<4 mA	Single	2	75J opt
63A4SRH	63	400	4	520	655,205,120	<3 mA	<4 mA	Three	2	75J opt

Ratings and Characteristics

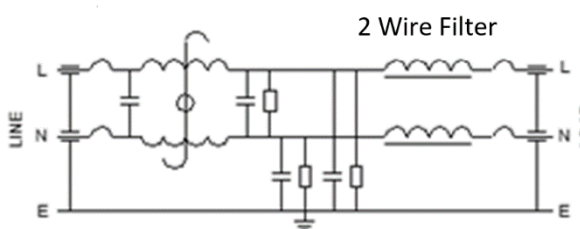
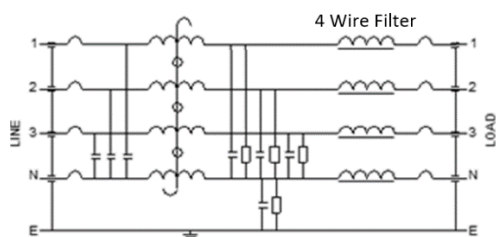
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 63A	Bolt size M8
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 63A	2 wire 9	4 wire 10

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD63A2SRH	SCPV - TEMPEST Shielded Room 63A 2 Wire Enhanced Filter Single Phase
SCPVSHIELD63A4SRH	SCPV - TEMPEST Shielded Room 63A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 100A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **EMP Protection E1/ E2 pulses**



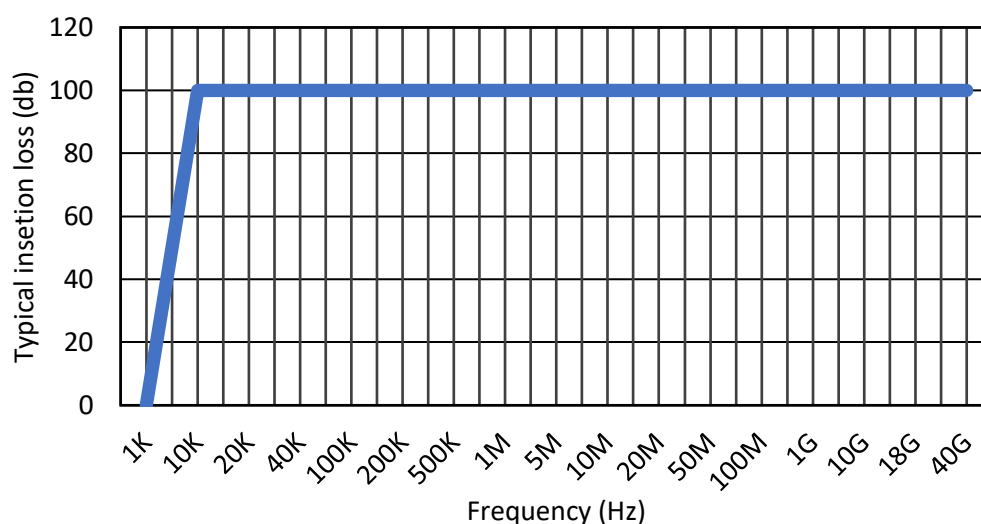
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
100A2SRH	100	230	2	275	745,235,145	<3 mA	<4 mA	Single	0.7	150J opt
100A4SRH	100	400	4	520	745,235,145	<3 mA	<4 mA	Three	0.7	150J opt

Ratings and Characteristics

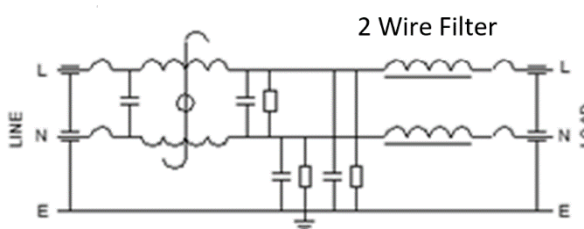
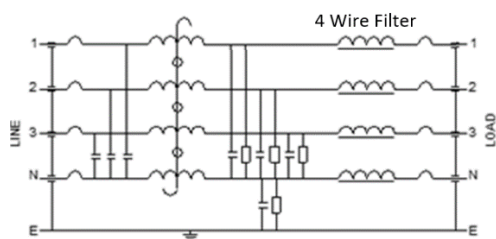
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 100A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.) 100A	2 wire 20	4 wire 26

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD100A2SRH	SCPV - TEMPEST Shielded Room 100A 2 Wire Enhanced Filter Single Phase
SCPVSHIELD100A4SRH	SCPV - TEMPEST Shielded Room 100A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 150A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

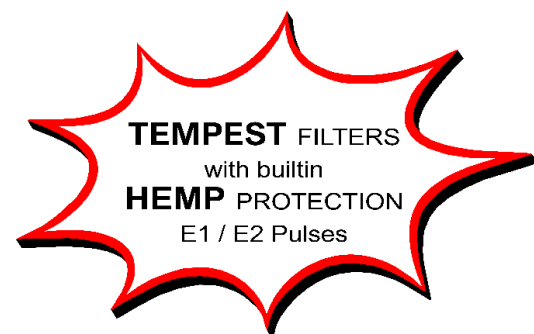
Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **HEMP Protection E1/ E2 pulses**



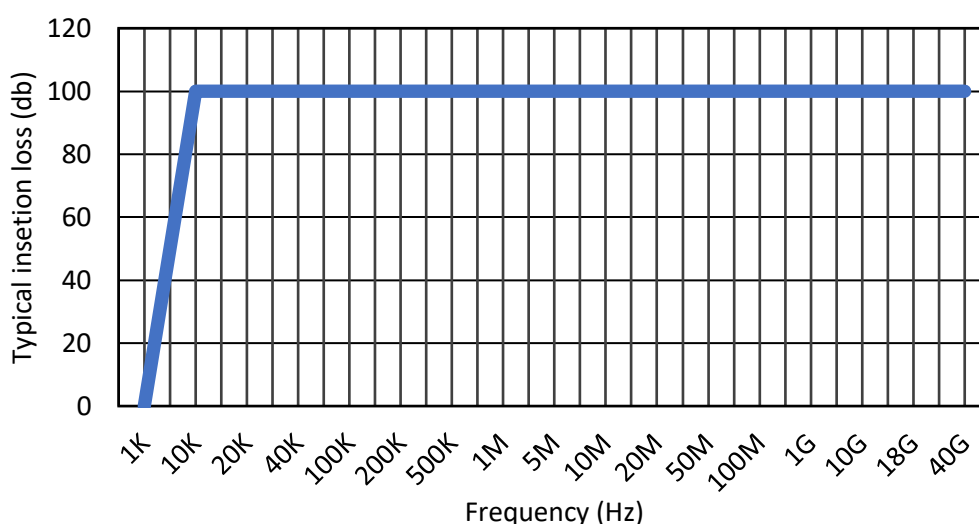
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
150A4SRH	150	400	4	520	745,235,145	<3 mA	<4 mA	Three	0.3	150J opt

Ratings and Characteristics

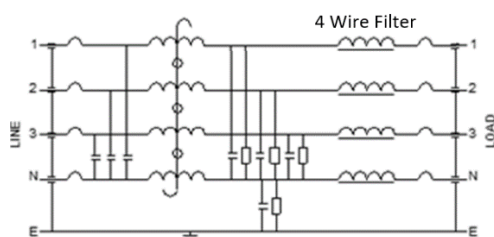
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 150A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 150A	4 wire 20

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD150A4SRH	SCPV - TEMPEST Shielded Room 150A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 200A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

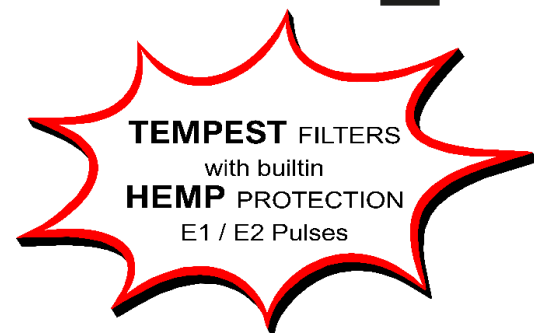
Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **HEMP Protection E1/ E2 pulses**



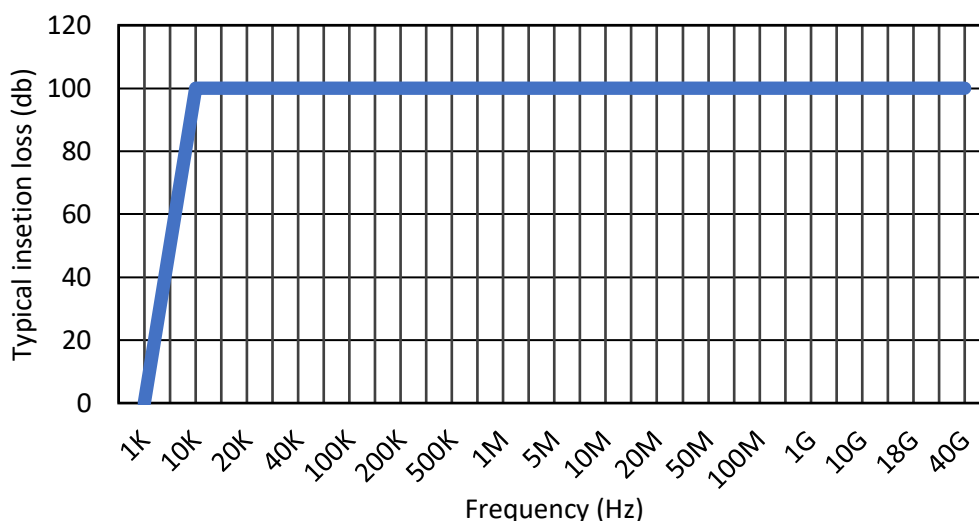
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
200A4SRH	200	400	4	520	750,410,145	<3 mA	<4 mA	Three	0.3	200J opt

Ratings and Characteristics

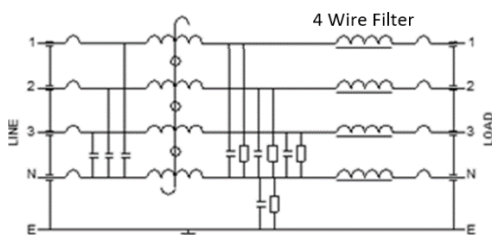
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 200A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 200A	4 wire 30

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD200A4SRH	SCPV - TEMPEST Shielded Room 200A 4 Wire Enhanced Filter Three Phase

SCPV - TEMPEST - 250A - Low Leakage Shielded Room Enhanced Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 10KHz - 40GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room. The filter has been designed for use within stringent TEMPEST environments and applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required.

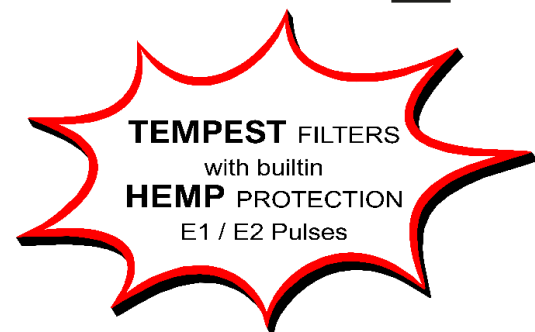
Silicon CPV filters come in 2 or 4 wire options with current ratings of up to 250A per phase. The filters are manufactured in rugged steel enclosures, plated and painted, providing a robust filter solution.

Silicon CPV can also supply additional transient suppression option to the filters if required to give protection against induced transients from EMP sources.



Typical Applications, Technical and Commercial benefits

- Shielded rooms and enclosures
- Military and IT installations
- Computer rooms
- High current capability - compact size
- High common & differential mode insertion loss
- Improved low frequency performance
- Optional input transient suppression to suit unique applications
- Assists in compliance with prevailing EMC directives
- State of the art technology ensures superior performance
- Small size - Reduced weight - Simple mechanical and electrical installation
- Compliant with relevant BS, VDE, UL, CE & CSA safety standards
- Conforms to MIL-STD 220A and the electrical characteristics of MIL-F-15733-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant
- **HEMP Protection E1/ E2 pulses**



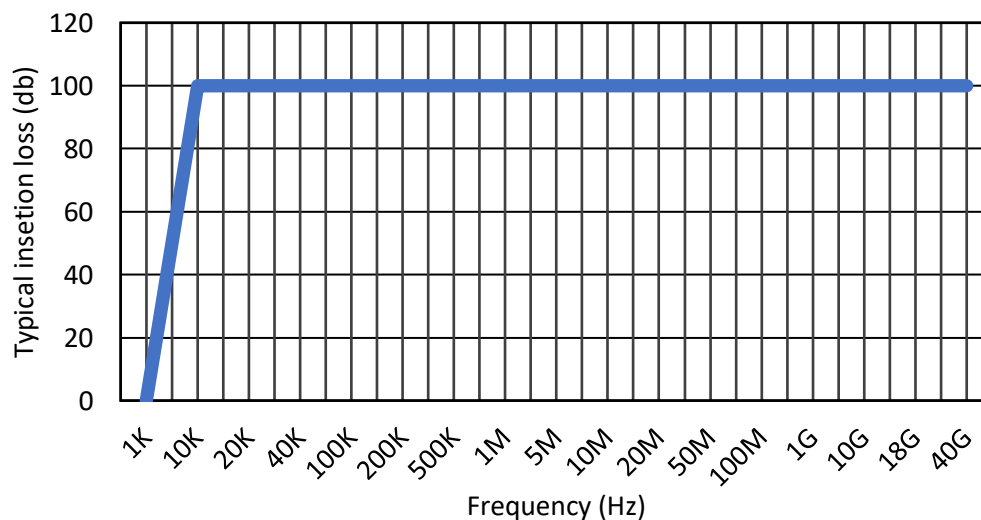
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
250A4SRH	250	400	4	520	750,410,145	<3 mA	<4 mA	Three	0.3	200J opt

Ratings and Characteristics

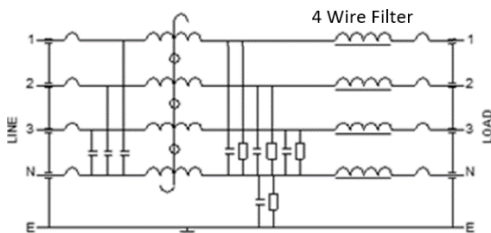
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 250A	Bolt size M10
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 250A	4 wire 35

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPVSHIELD250A4SRH	SCPV - TEMPEST Shielded Room 250A 4 Wire Enhanced Filter Three Phase