



TEMPEST FILTERS



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SCPV - TEMPEST Pluggable Filter

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

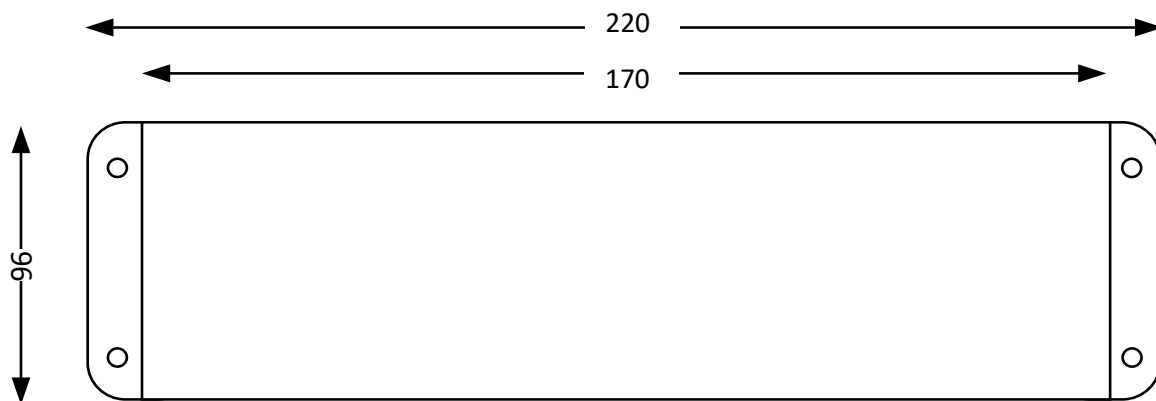
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **6A BS1363 3 pin plug input & 1BS1363 socket outlet**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- Low 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
- **6A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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

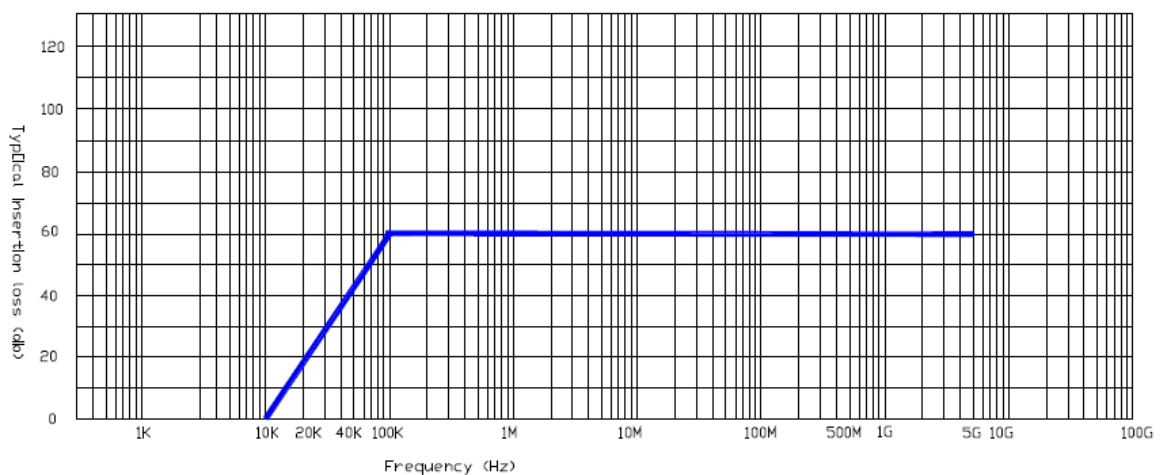
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 6A1S	1 x BS1363 Socket, Maximum 6A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter

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

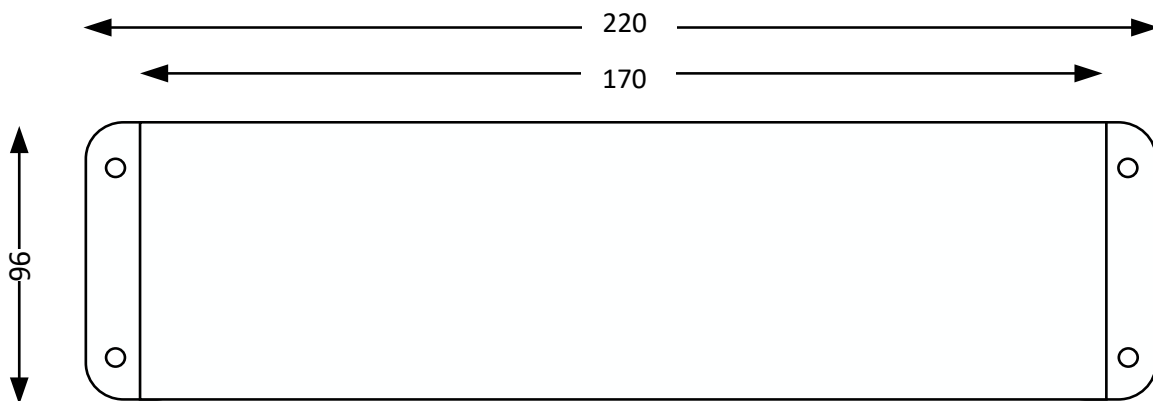
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 1 BS1363 socket outlet**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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

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 3.5mA
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

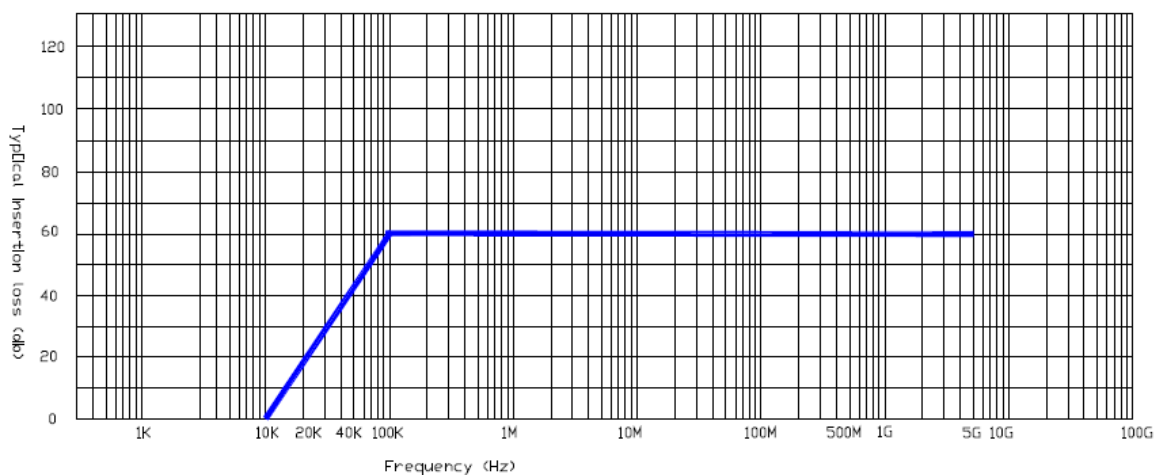
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

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

SCPV - TEMPEST Pluggable Filter

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

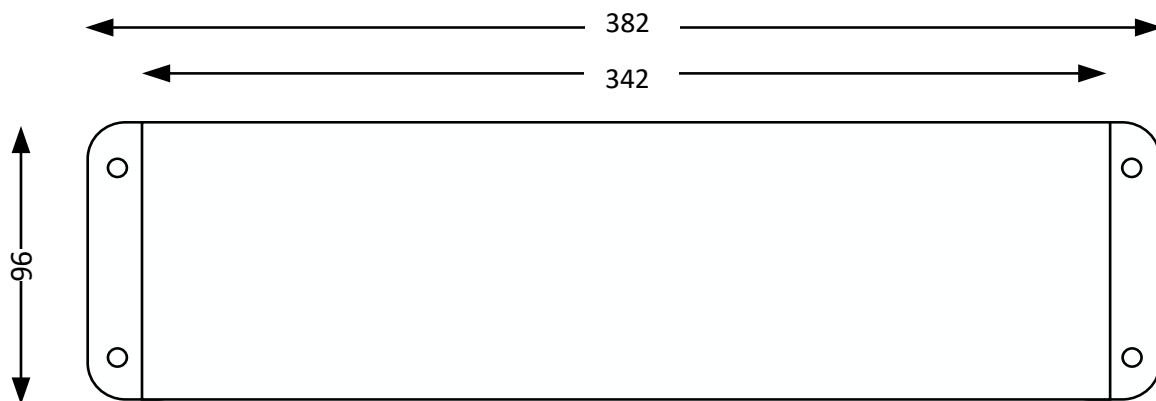
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **6A BS1363 3 pin plug input & 2 BS1363 socket outlet**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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
- **6A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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

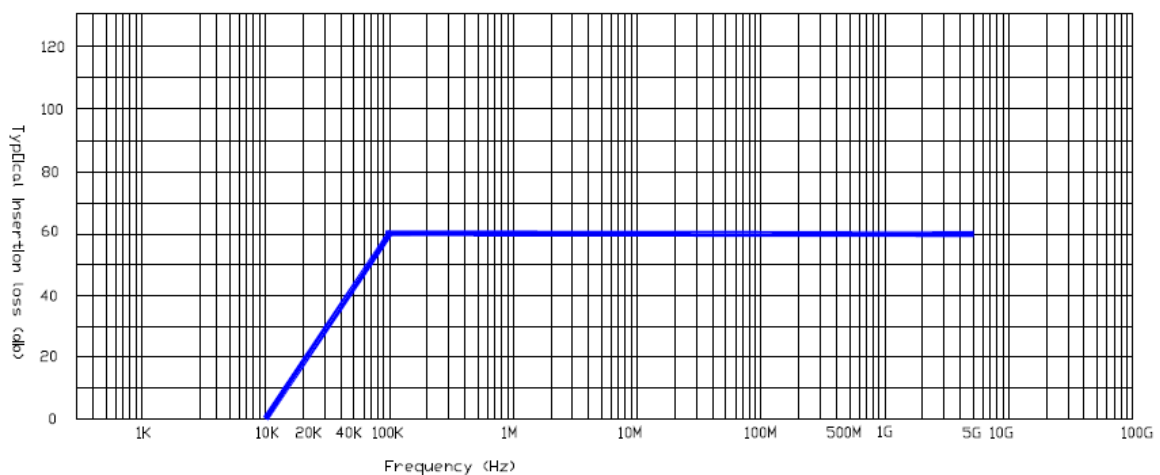
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 6A2S	2 x BS1363 Socket, Maximum 6A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter

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

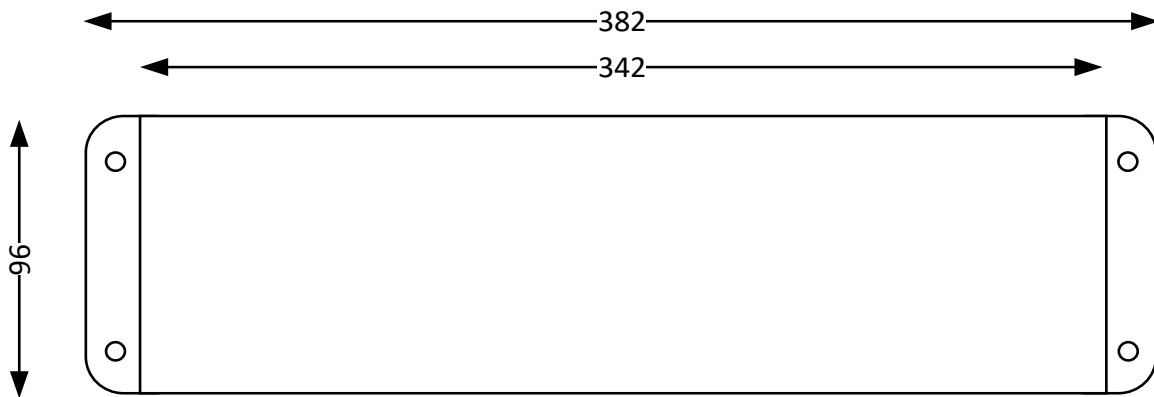
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 2 BS1363 socket outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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

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 3.5mA
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 below34V
Enclosure	Extruded Aluminum
Finish	Powder coated

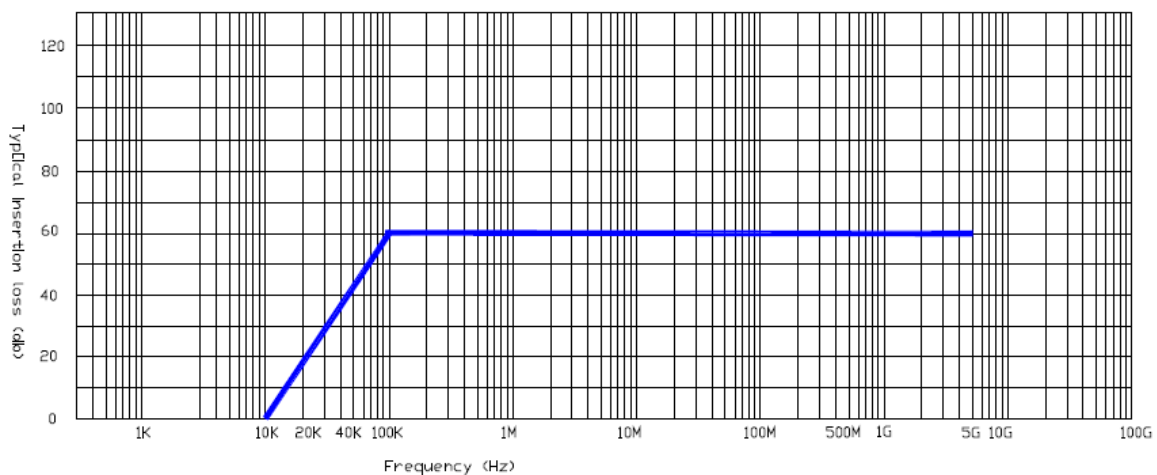
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 13A2S NATO NO: 5915-99-217-3439	2 x BS1363 Sockets, Maximum13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter

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

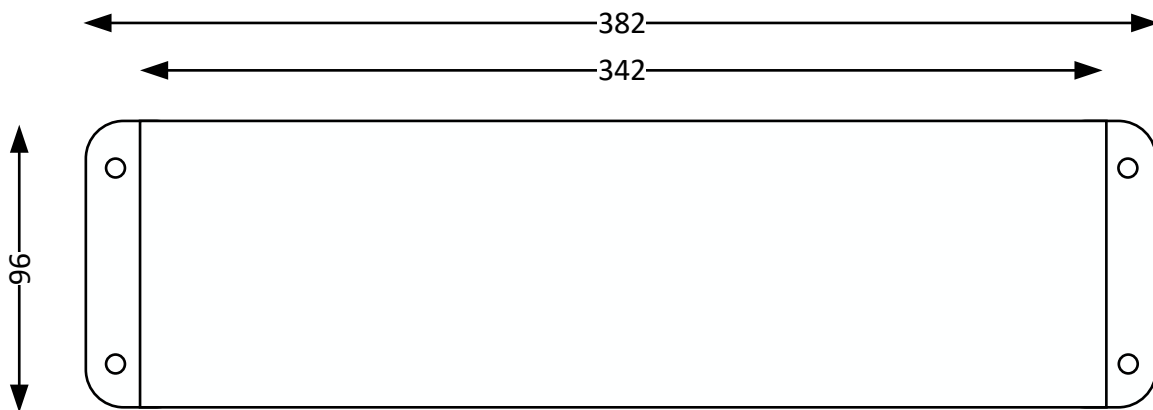
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 4 x BS1363 sockets outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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

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 3.5mA
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

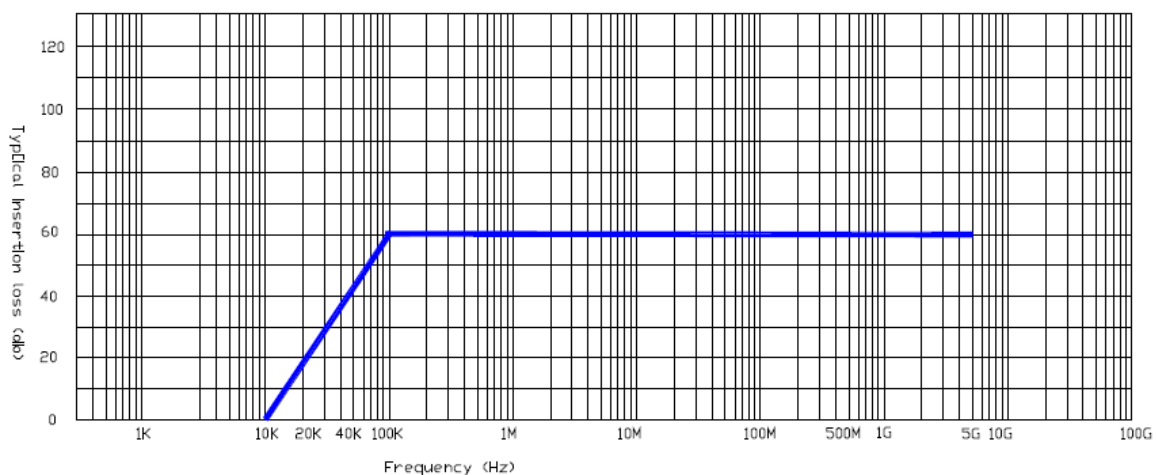
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 13A4S	4 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter

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

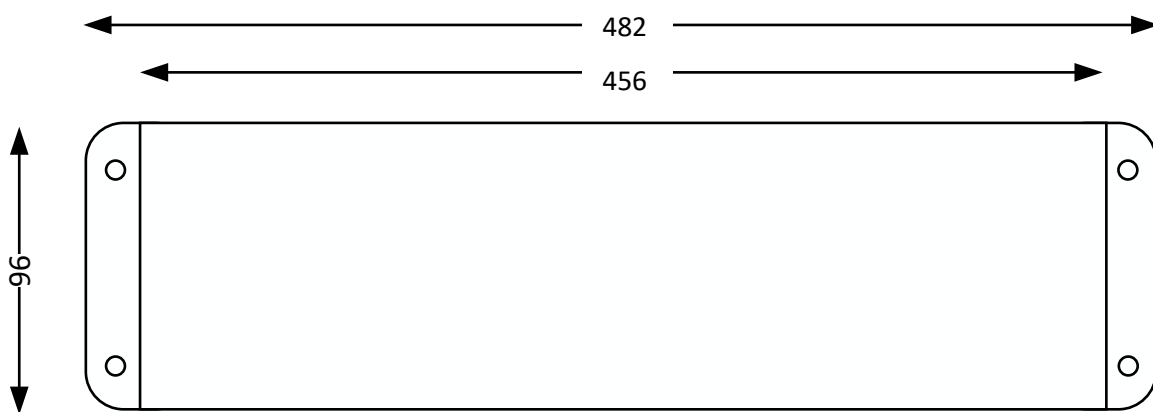
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input & 6 x BS1363 sockets outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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

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 3.5mA
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

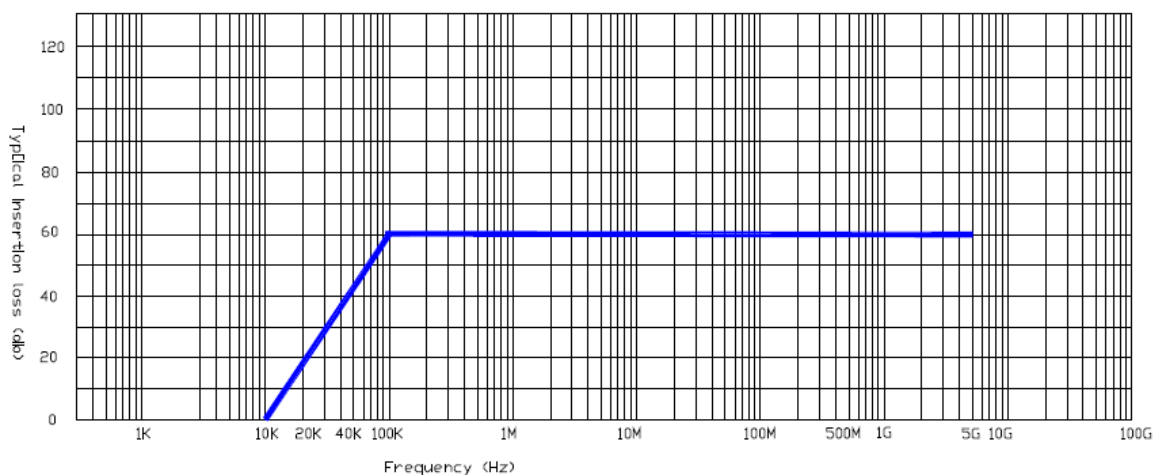
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

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

SCPV - TEMPEST Pluggable Filter

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

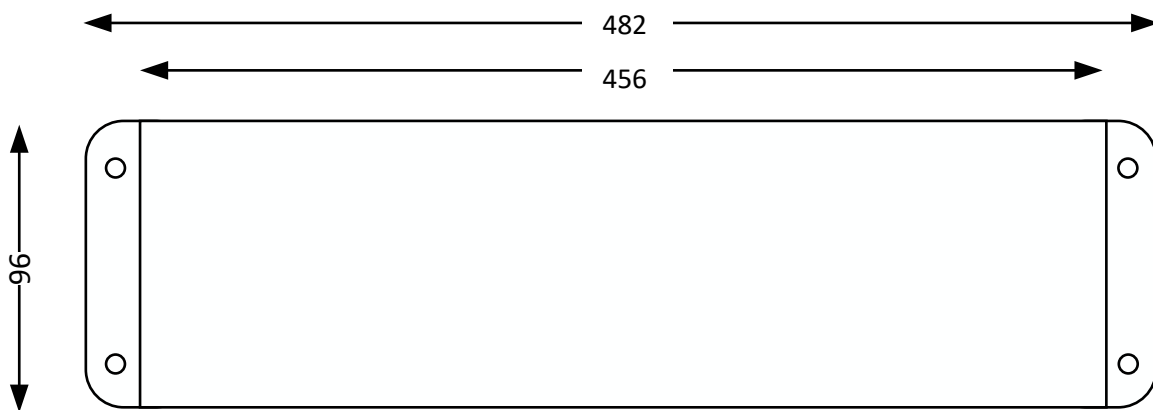
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input & 6 x BS1363 sockets outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to 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

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 3.5mA
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

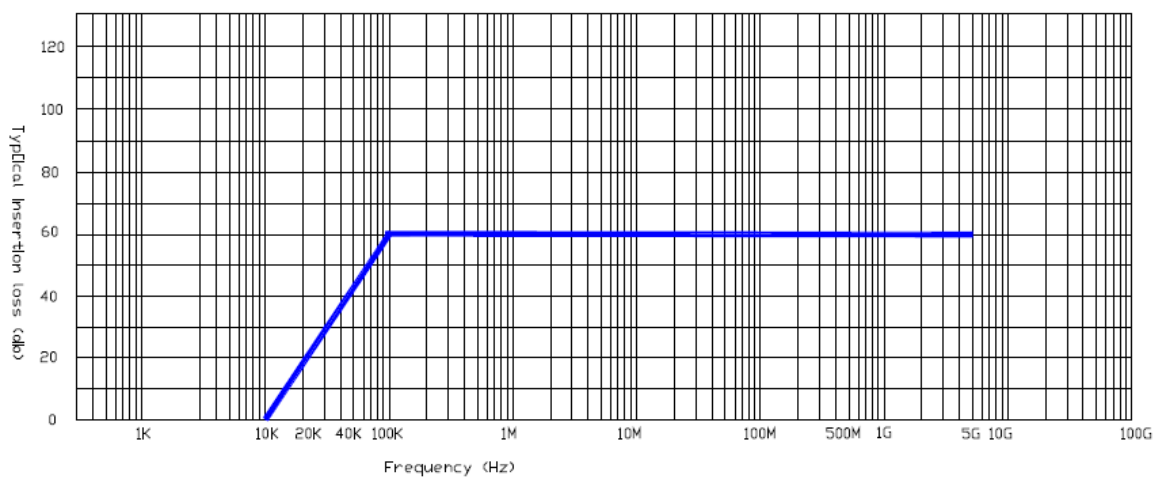
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 32A6S	6 x BS1363 Sockets, Maximum 13A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter

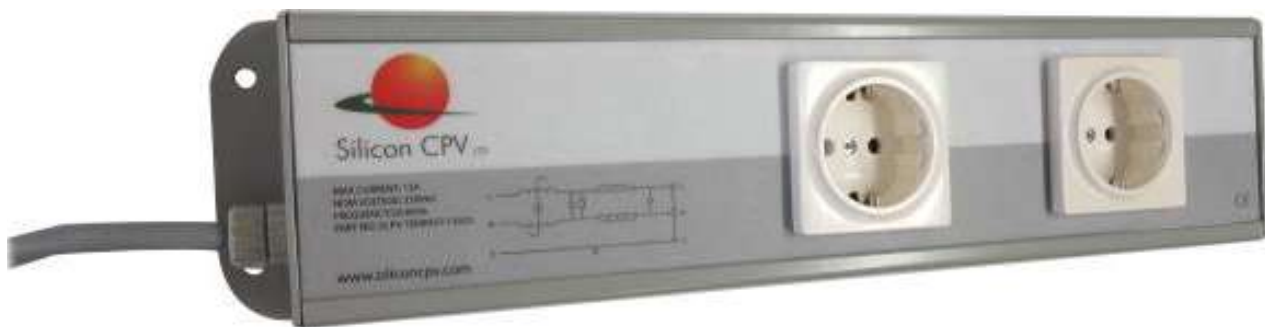
SCPV – TEMPEST – 16A2S – EU

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

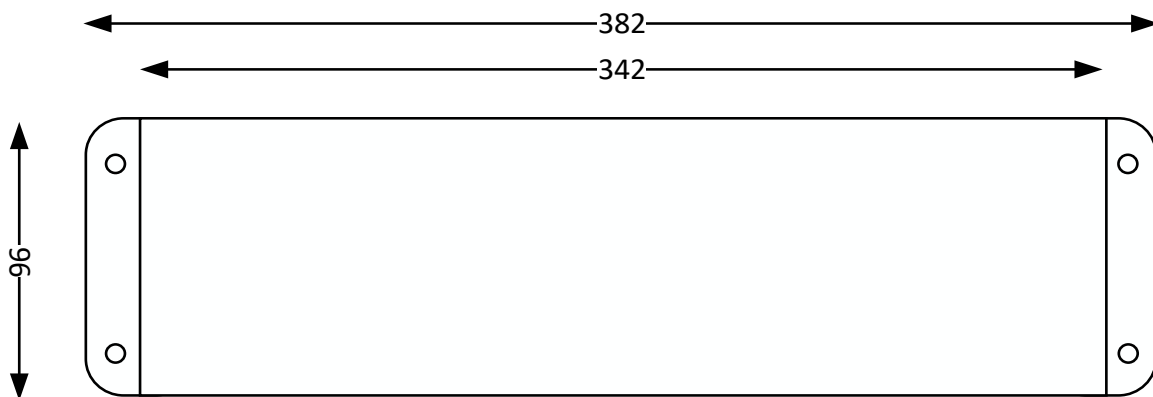
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **16A Type F plug input & 2 x Schuko 16A socket outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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

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 3.5mA
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

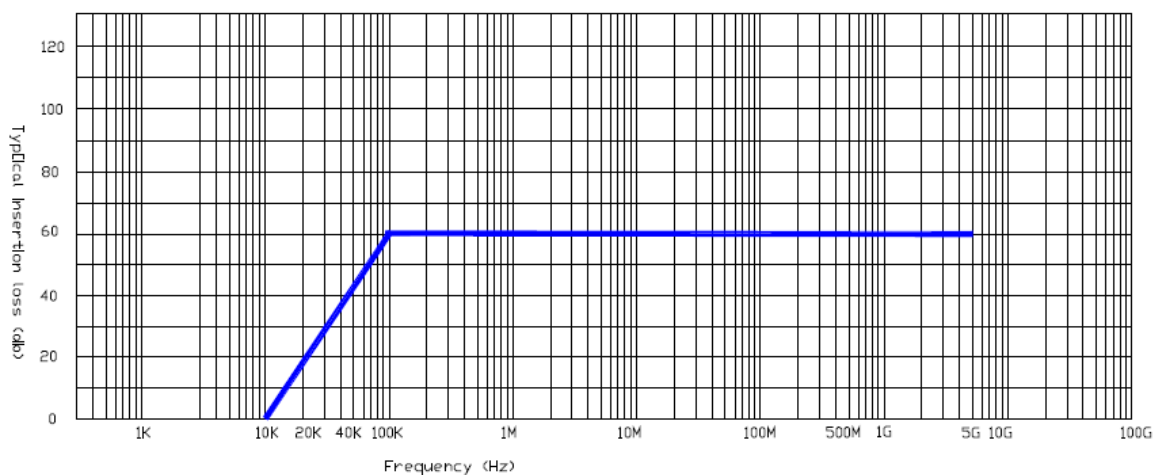
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

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

SCPV - TEMPEST Pluggable Filter

SCPV – TEMPEST – 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

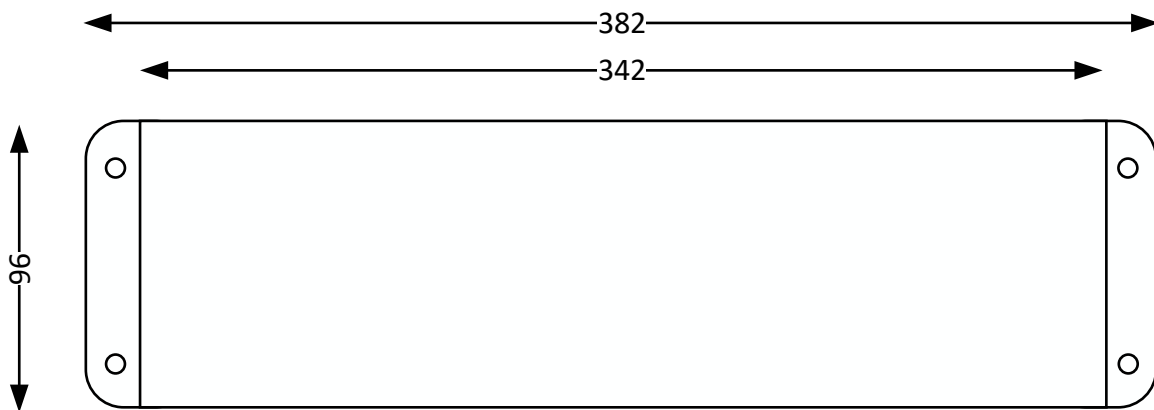
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **16A Type F plug input & 4 x Schuko 16A socket outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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
- **16A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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 below34V
Enclosure	Extruded Aluminum
Finish	Powder coated

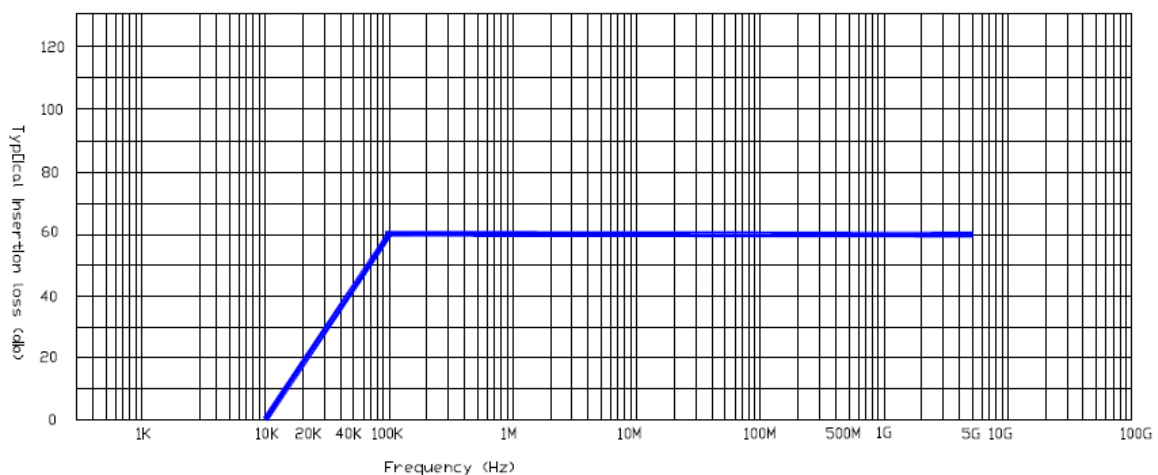
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 16A4S – EU	4 x Type F Sockets, Maximum16A Single Phase 230V Pluggable Tempest Filter

SCPV - TEMPEST Pluggable Filter

SCPV – TEMPEST – 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

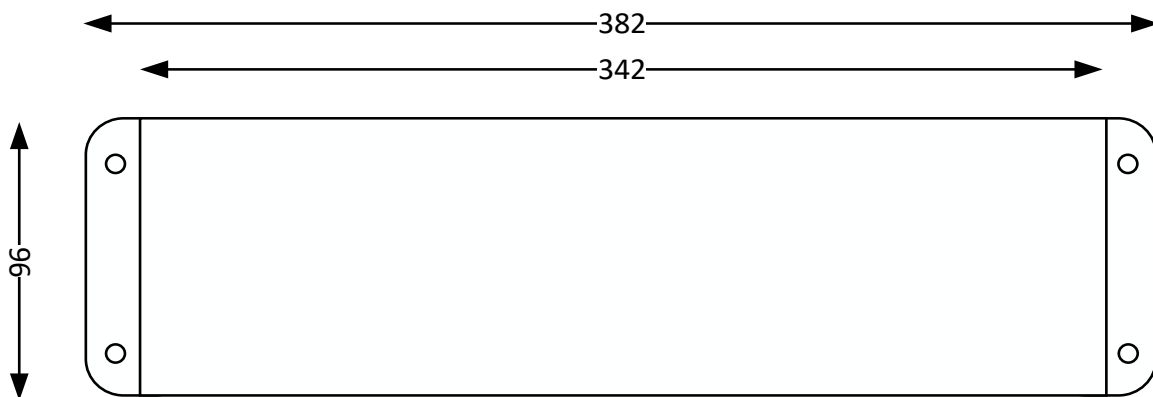
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **15A Type B (American) 3 pin plug input & 2 x 15A Round Pin Socket Outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation 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
- **15A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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

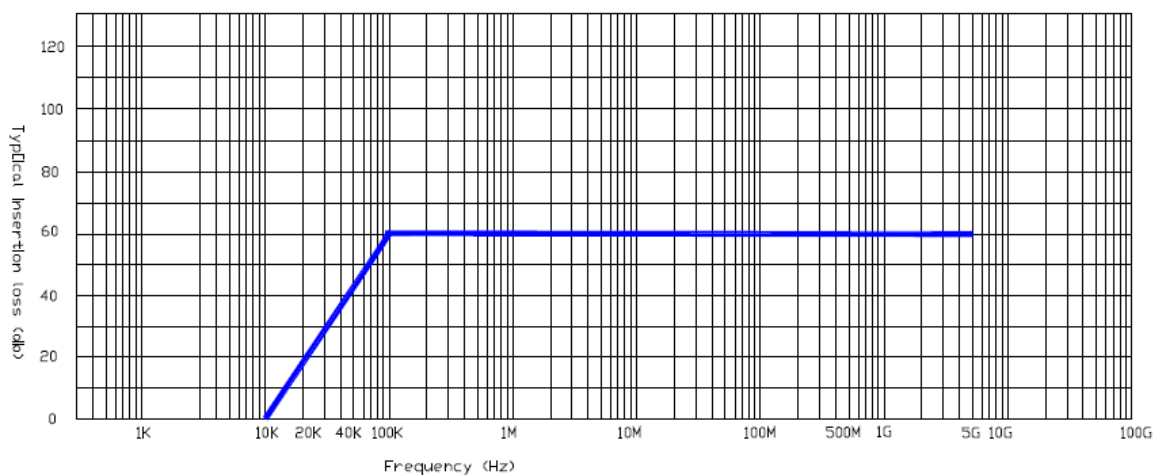
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 15A2S – USA	2 x Type B (American) Sockets, Maximum 15A Single Phase 120V Pluggable Tempest Filter

SCPV - TEMPEST Inline Filter

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

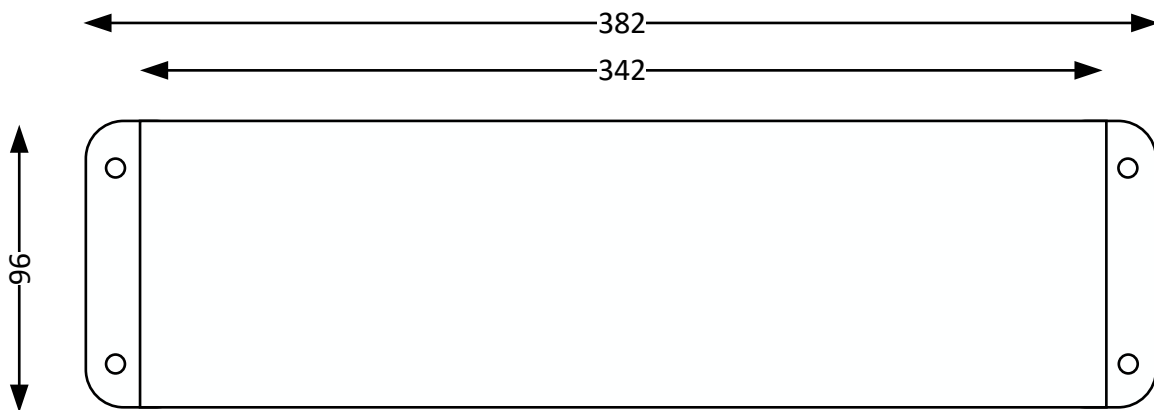
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / 2m, 3 core flex cable for output**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation 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
- **6A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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

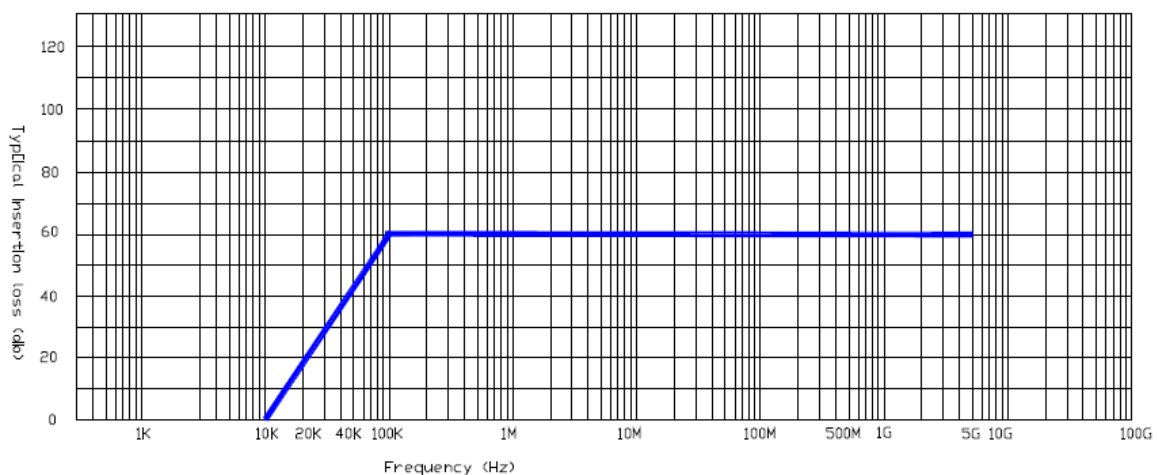
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 6AIL	Inline 6A Single Phase 230V Filter

SCPV - TEMPEST Inline Filter

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

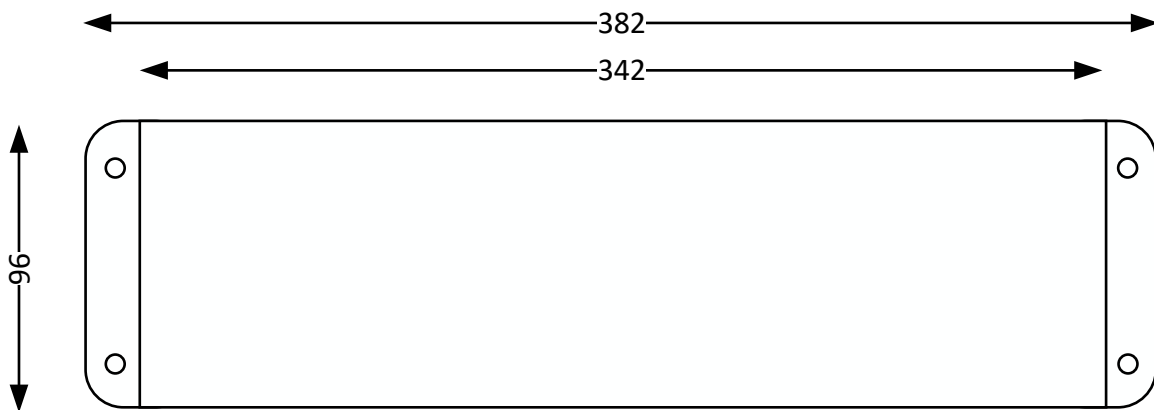
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **13A BS1363 3 pin plug input / 2m 3 core flex cable for output connectivity**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black 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

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 3.5mA
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

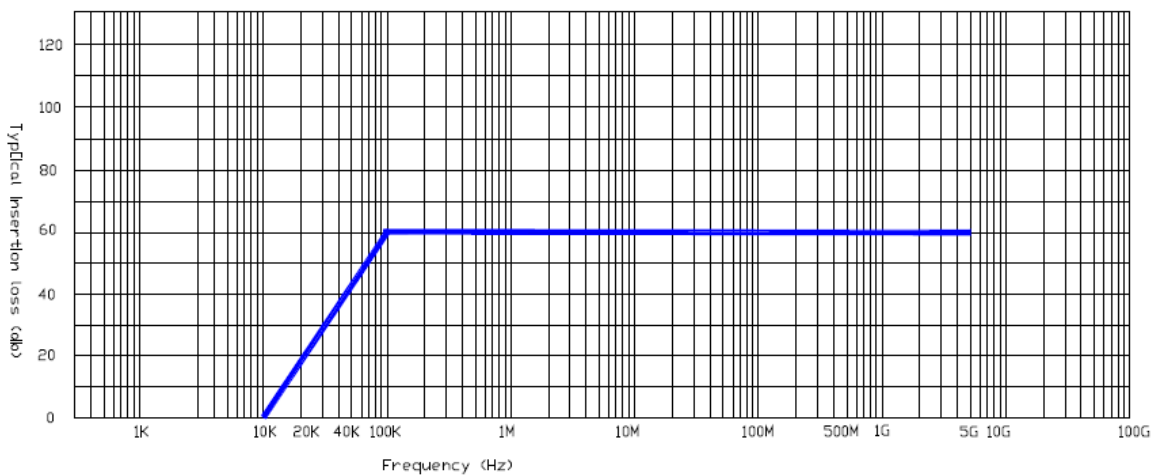
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 13AIL	Inline 13A single Phase 230V Pluggable Filter

SCPV - TEMPEST Inline Filter

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

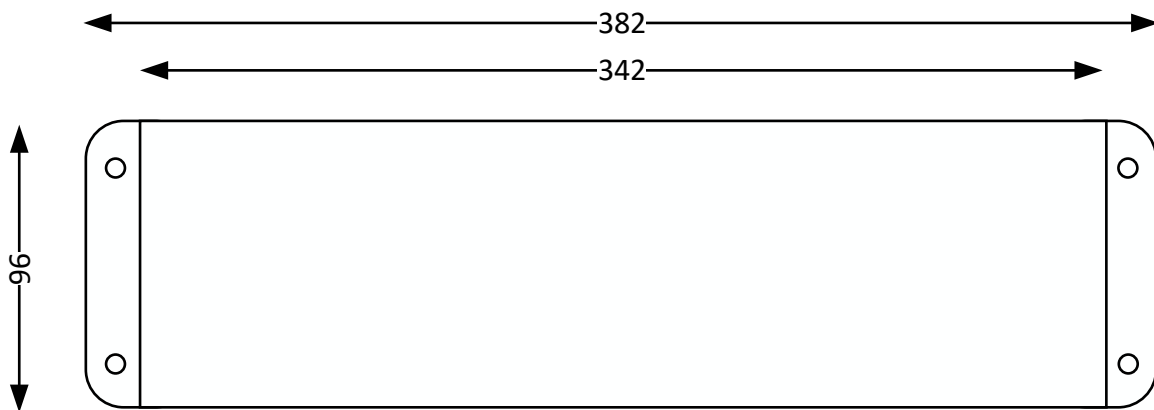
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / 2m, 3 core flex cable for output**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation 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
- **16A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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

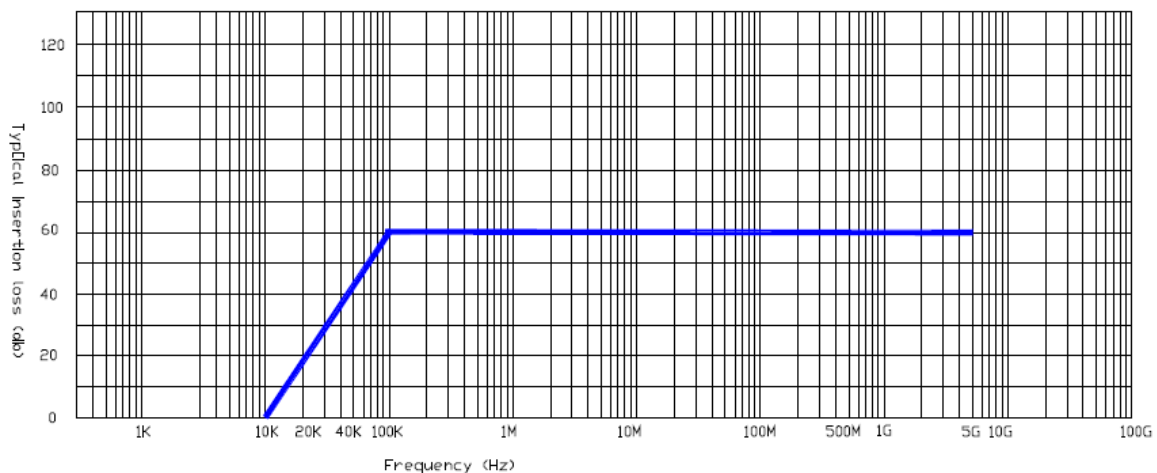
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 16AIL	Inline 16A Single Phase 230V Filter

SCPV - TEMPEST Inline Filter

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

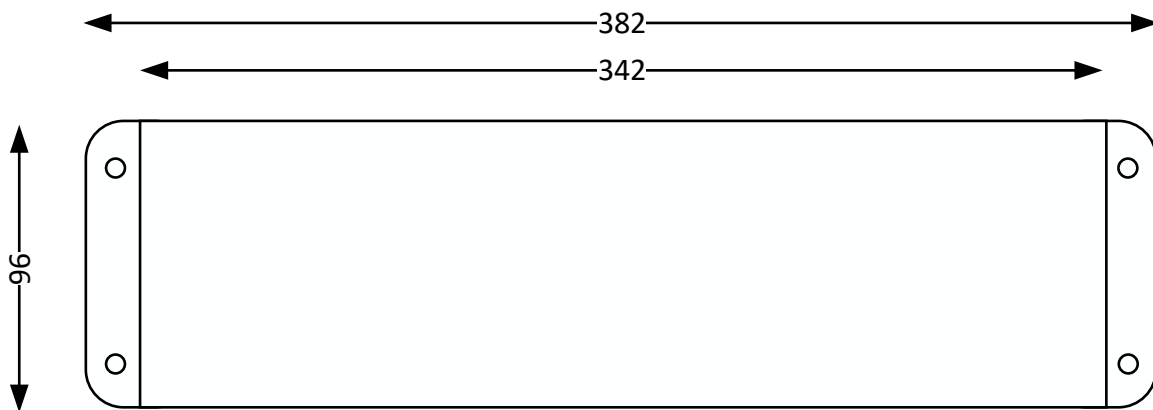
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / 2m, 3 core flex cable for output**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation 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

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 3.5mA
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

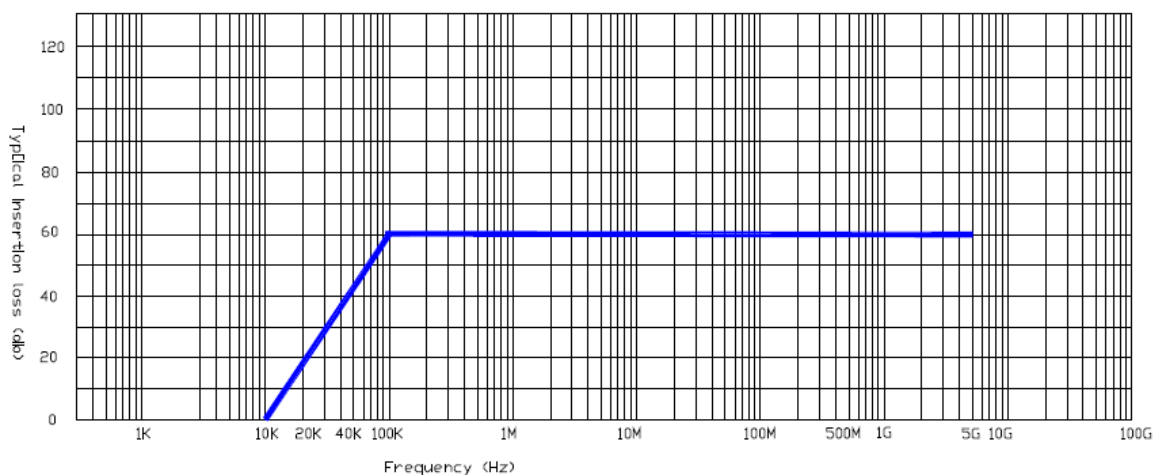
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

Part No	Product Description
SCPV – TEMPEST – 32AIL	Inline 32A Single Phase 230V Tempest Filter

SCPV - TEMPEST Shielded Room Filters

Silicon CPV's TEMPEST Shielded Room filters have been designed for use within stringent TEMPEST environments and applications, for attenuation from 14KHz – 18GHz at 100dB.

Shielded rooms require high levels of attenuation to ensure no conducted or radiated emissions are either imported or exported from the room.

Silicon CPV filters come in 2 or 4 wire options with current ratings of up to **200A** 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
- EN 60939-2-2005 compliant
- Filters comply with basic requirements of the EMC directive 2004/108/EC
- CE and RoHS compliant



Technical Specifications

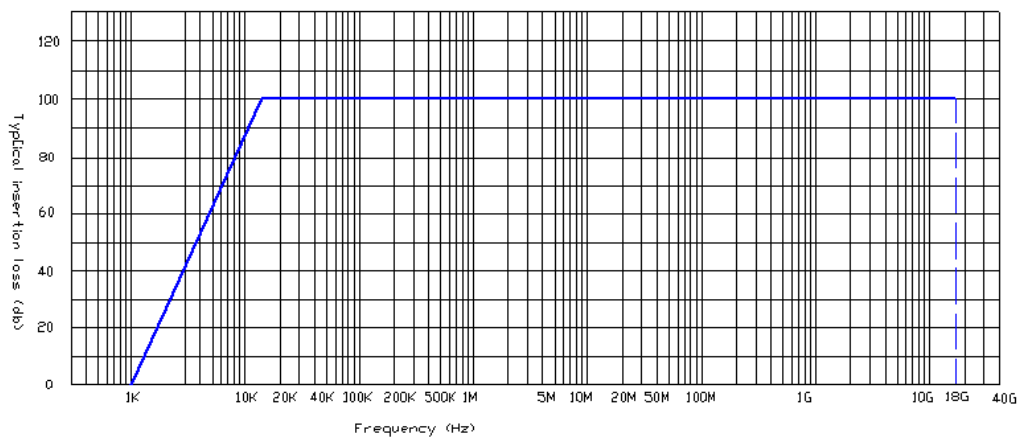
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension W-H-D mm	Typical Earth Leakage mA (worst case)			Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						Std	LE	400Hz			
16A 2S R	16	230	2	275	400,90,45	500	20	500	Single	5	75J opt
16A 4S R	16	400	4	520	370,200,90	500	20	500	Three	5	75J opt
32A 2S R	32	230	2	275	370,200,90	500	20	500	Single	3	75J opt
32A 4S R	32	400	4	520	370,200,90	500	20	500	Three	3	75J opt
63A 2S R	63	230	2	275	370,200,90	1K	40	1000	Single	2	75J opt
63A 4S R	63	400	4	520	400,300,120	1K	40	1000	Three	2	75J opt
100A 2S R	100	230	2	275	560,215,120	2K	40	2000	Single	0.7	150J opt
100A4S R	100	400	4	520	550,410,150	2K	40	2000	Three	0.7	150J opt
150A 4S R	150	400	4	520	550,410,150	2K	40	4000	Three	0.3	150J opt
200A 4S R	200	400	4	520	550,410,150	2K	40	4000	Three	0.3	200J opt

Ratings and Characteristics

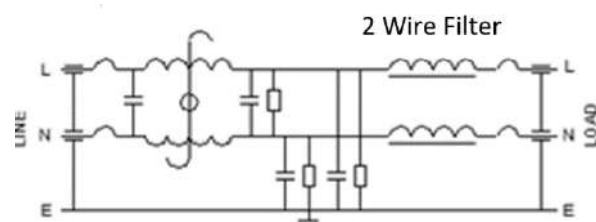
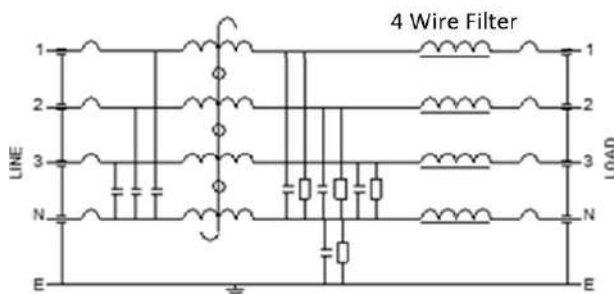
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type	Bolt size
16A - 32A - 63A	M5 - M6 - M8
100A - 150A - 200A	M10 - M10 - M10
Conforms to	MIL-STD 220A Mil-F-15733

Max Temp Rise @ Full Load	<35°C	
Max AC Volt Drop @ Full load	<2V/Line	
Weight Kg (approx.)	2 wire	4 wire
16A	5	10
32A - 63A	9	10
100A - 150A	26	20
200A	29	30
Additional options – EMC Threaded bulkhead glands	Available on request	

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

Order Part No	Product Description
SCPV – TEMPEST – 16A 2S R	SCPV - TEMPEST Shielded Room 16A 2 Wire Filter Single Phase
SCPV – TEMPEST – 16A 4S R	SCPV - TEMPEST Shielded Room 16A 4 Wire Filter Three Phase
SCPV – TEMPEST – 32A 2S R	SCPV - TEMPEST Shielded Room 32A 2 Wire Filter Single Phase
SCPV – TEMPEST – 32A 4S R	SCPV - TEMPEST Shielded Room 32A 4 Wire Filter Three Phase
SCPV – TEMPEST – 63A 2S R	SCPV - TEMPEST Shielded Room 63A 2 Wire Filter Single Phase
SCPV – TEMPEST – 63A 4S R	SCPV - TEMPEST Shielded Room 63A 4 Wire Filter Three Phase
SCPV – TEMPEST – 100A 2S R	SCPV - TEMPEST Shielded Room 100A 2 Wire Filter Single Phase
SCPV – TEMPEST – 100A 4S R	SCPV - TEMPEST Shielded Room 100A 4 Wire Filter Three Phase
SCPV – TEMPEST – 150A 4S R	SCPV - TEMPEST Shielded Room 150A 4 Wire Filter Three Phase
SCPV – TEMPEST – 200A 4S R	SCPV - TEMPEST Shielded Room 200A 4 Wire Filter Three Phase

SCPV – TEMPEST

19” 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

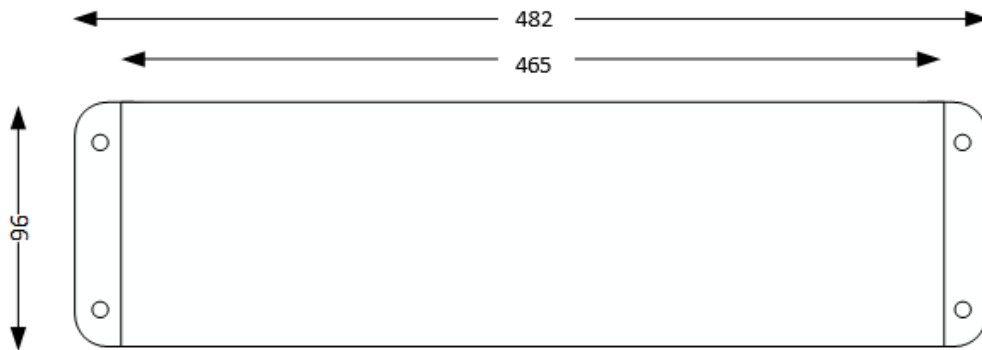
- 19" Rack Mountable Filter inc 32A MCB
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / 4 x 16A C19 socket outlets and 32A MCB**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened 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

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 3.5mA
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



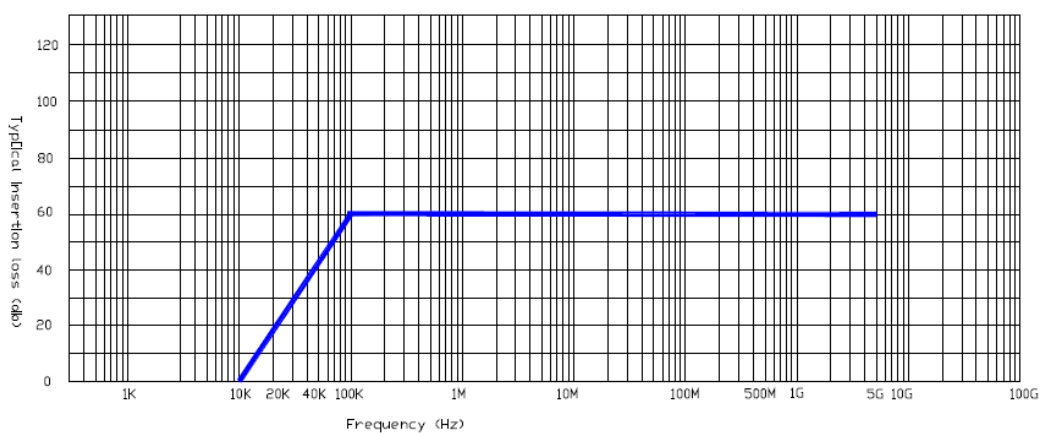
Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

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

SCPV – TEMPEST

19” 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

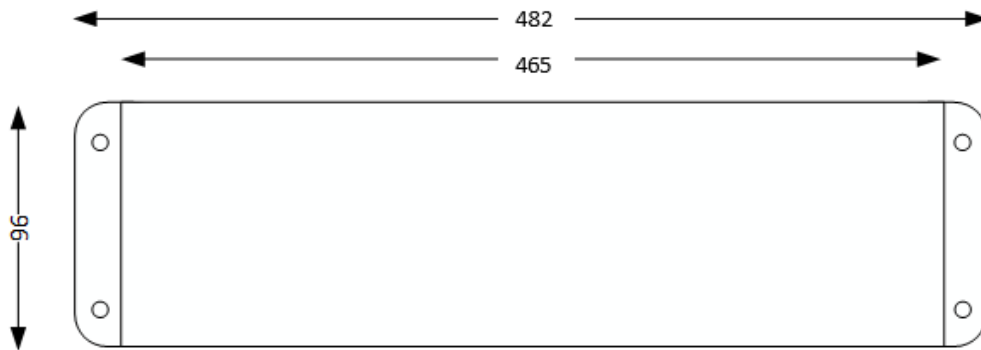
- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / 8 x 16A C19 socket outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain 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
- **16A designs of filter are downline tolerable to a personnel protection RCCD**
- CE compliant
- Simple mechanical and electrical installation

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 3.5mA
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



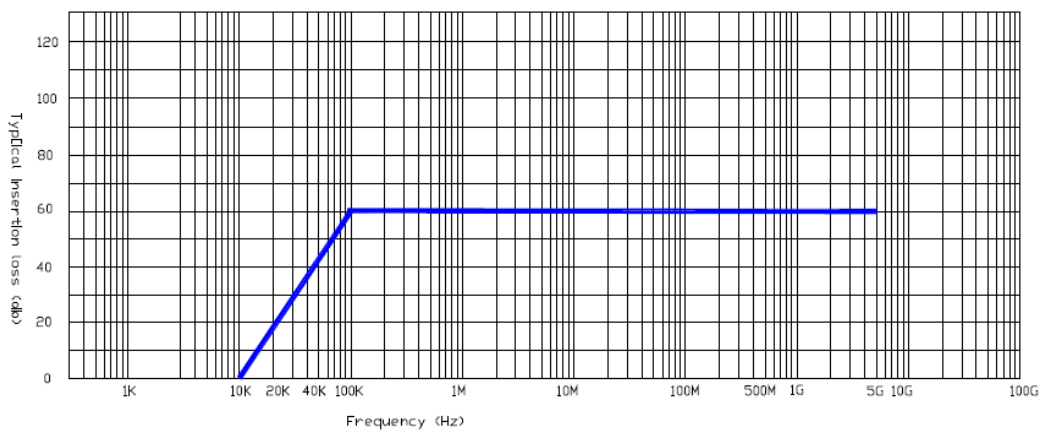
Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

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

SCPV – TEMPEST

19” 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

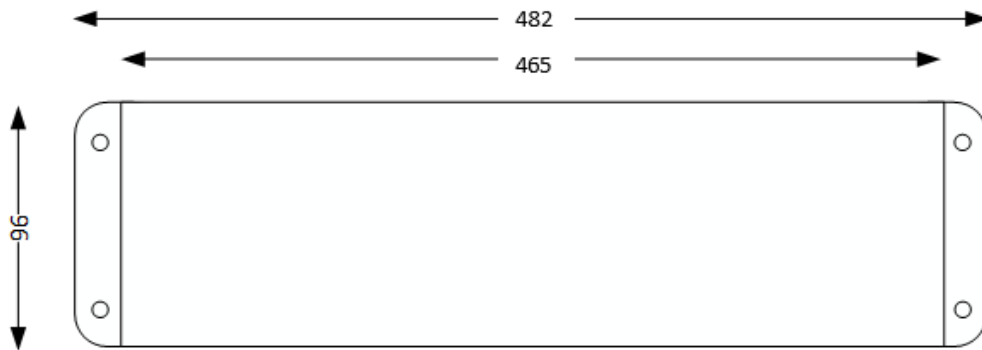
- 19" Rack Mountable Filter
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / 8 x 32A C19 socket outlets**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain 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

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 3.5mA
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



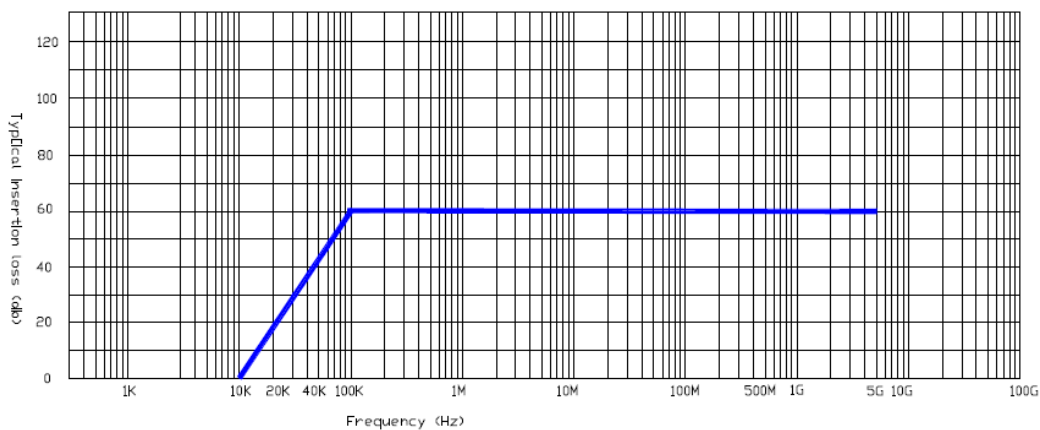
Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

19" Rack Mount



Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

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



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