

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

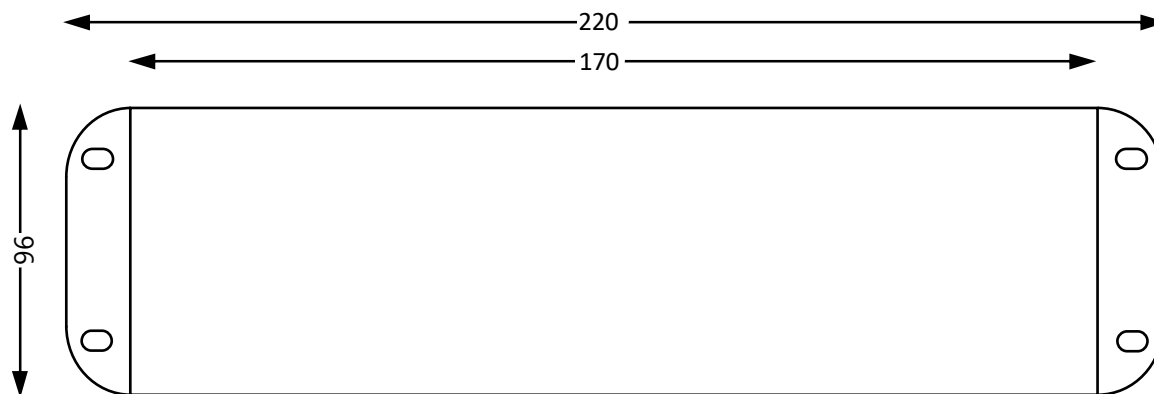
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core screened flex cable with IEC 60309 2P+E 6h 16A (2P3W) Plug for input connectivity**
- **2m, 3 core screened flex cable with IEC 60309 2P+E 6h 16A (2P3W) Socket for output connectivity**
- 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

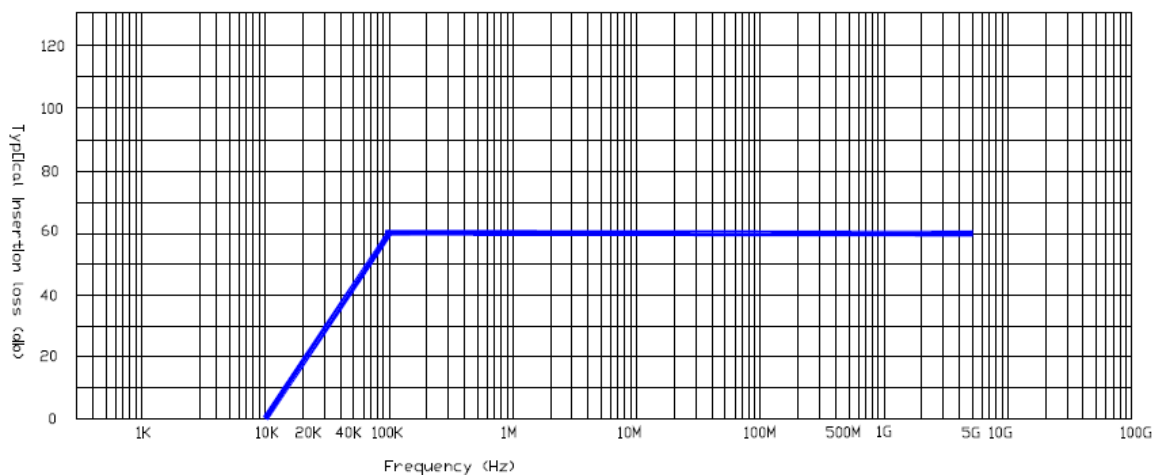
Dimensional Data



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