

SCPV - TEMPEST Inline Filter - 40A-DC-2L

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 **40 Amps** under maximum of 200V DC voltage conditions for 2 lines DC circuits. A low resistance earth connection is required to achieve full specification filtering.



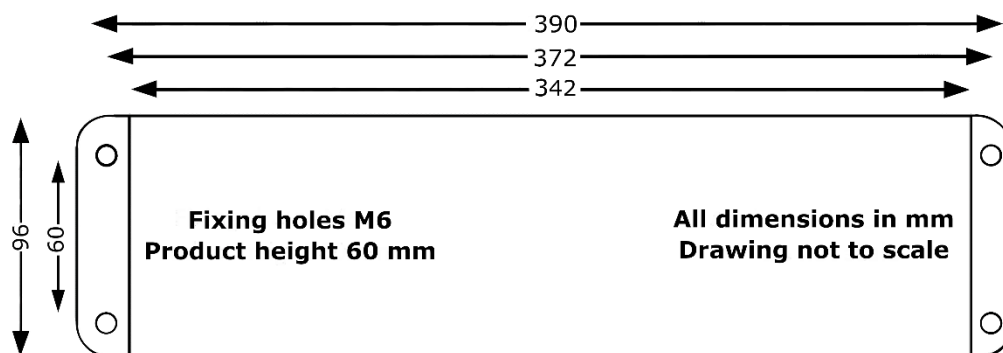
Description

- TEMPEST EMI 2 Line DC 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
- UKCA - CE compliant – Input voltage range (6-200VDC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

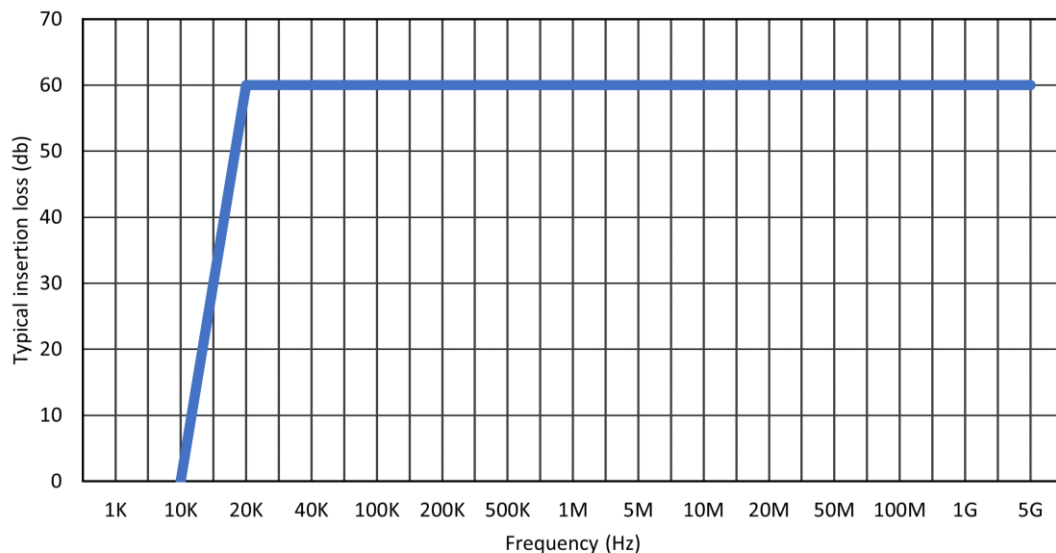
Ratings and Characteristics

Rated Voltage	200V DC	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	40A	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
SCPVTEMPEST40A-DC-2L CP&F Part No: SCPVTEMPEST40A-DC-2L	2 Line 40A 200V DC Tempest Filter