

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

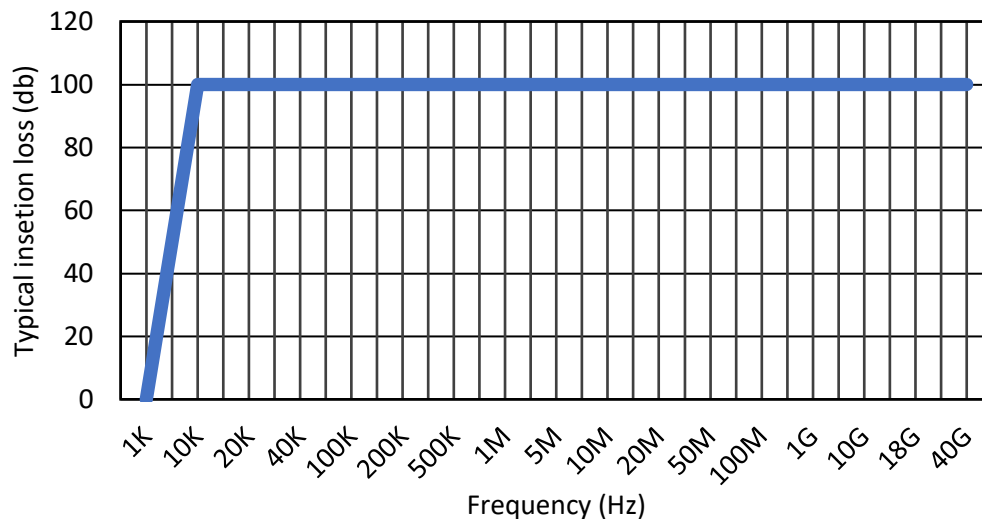
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
32A2SR	32	230	2	275	560,175,105	<3 mA	<4 mA	Single	3	75J opt
32A4SR	32	400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

Ratings and Characteristics

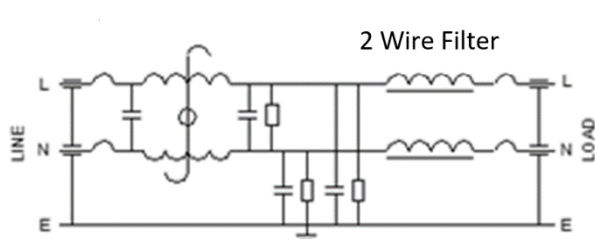
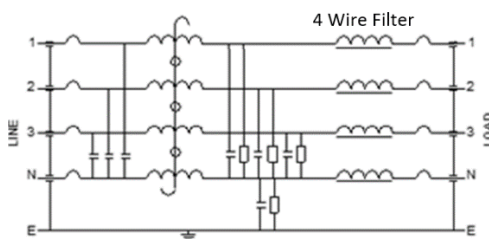
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 32A	Bolt size M6
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

Max Temp Rise @Full Load	<35°C
Max AC Volt Drop @ Full load	<2V/Line
Weight Kg (approx.) 32A	2 wire 4 wire 9 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 Enhanced Filter Single Phase
SCPVSHIELD32A4SR	SCPV - TEMPEST Shielded Room 32A 4 Wire Enhanced Filter Three Phase