

# SCPV - TEMPEST – 16A – Low Leakage Shielded Room Filters with HEMP Protection

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
- **HEMP Protection E1/ E2 pulses**

CE  RoHS 

**TEMPEST FILTERS**  
with builtin  
**HEMP PROTECTION**  
E1 / E2 Pulses

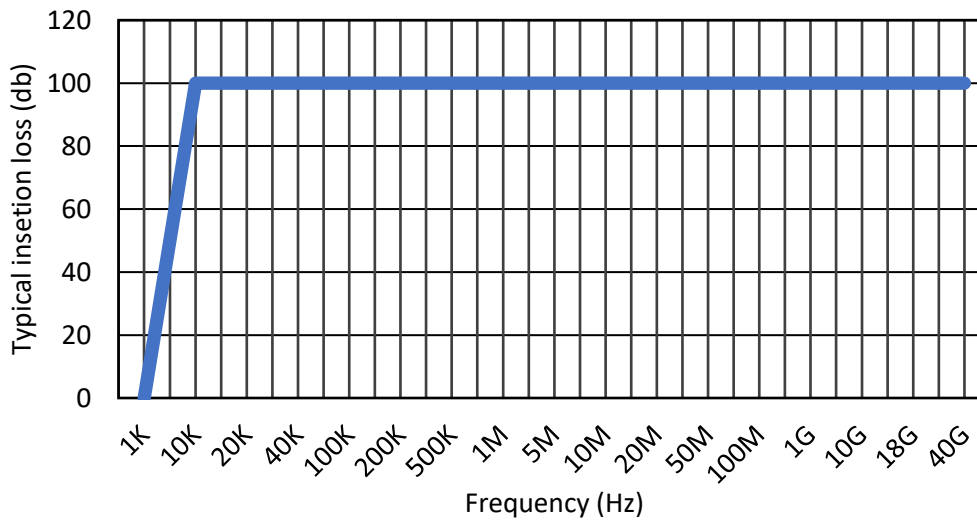
SCPV TEMPEST Model No	Current AC (A)	Voltage AC (V)	No of wires	Max AC (V)	Dimension L-W-H mm	Typical Earth Leakage mA (worst case)		Phase	Inductance per line (Typical) mH	Transient Energy Absorption (Typical)
						50Hz	60Hz			
16A2SRH	16	230	2	275	600,175,105	<3 mA	<4 mA	Single	5	75J opt
16A4SRH	16	400	4	520	600,175,105	<3 mA	<4 mA	Three	5	75J opt

### Ratings and Characteristics

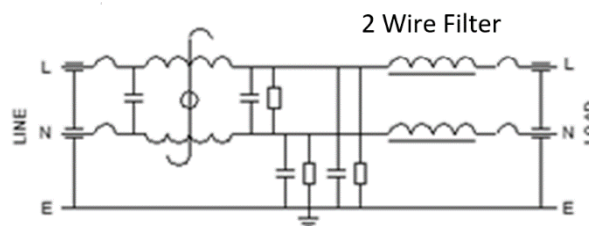
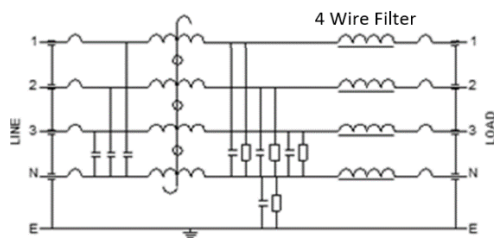
Storage Temp Range	-25°C to 85°C
Case material	Steel
Operating Temp Range	-20°C to 50°C
Termination Type 16A	Bolt size M5
Conforms to	MIL-STD 220A MIL-F-15733-28 Rev F:2003

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

### Performance Characteristics and Insertion Loss Curves



### Schematics



### Part No and Ordering Information

Order Part No	Product Description
<b>SCPVSHIELD16A2SRH</b>	SCPV - TEMPEST Shielded Room 16A 2 Wire Filter Single Phase with HEMP Protection
<b>SCPVSHIELD16A4SRH</b>	SCPV - TEMPEST Shielded Room 16A 4 Wire Filter Three Phase with HEMP Protection