

SCPV - TEMPEST – 250A - 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:2003-28 Rev F:2003
- IEC 60939-2-2005/AMD1:2023 compliant
- Filters comply with basic requirements of the EMC directive 2014/30/EU
- RoHS compliant

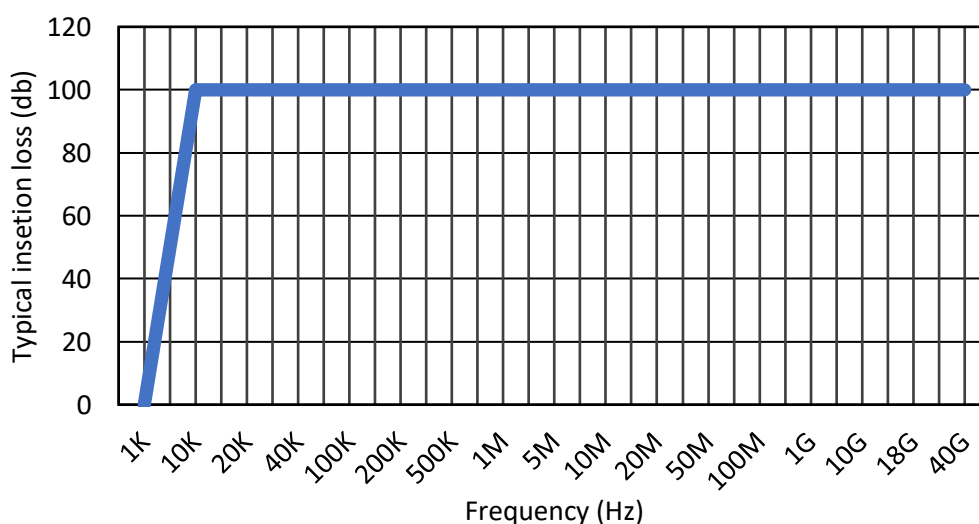


| SCPV TEMPEST Model No | Current AC (A) | Voltage AC (V) | No of wires | Max AC (V) | Dimension L-W-H mm | Typical Earth Leakage mA (worst case) | | Phase | Inductance per line (Typical) mH | Transient Energy Absorption (Typical) |
|-----------------------------|----------------------|----------------------|-------------------|------------------|--------------------------|---|-------|-------|---|---|
| | | | | | | 50Hz | 60Hz | | | |
| 250A4SR | 250 | 400 | 4 | 520 | 750,410,145 | <3 mA | <4 mA | Three | 0.3 | 200J opt |

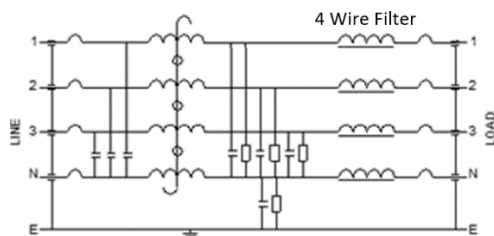
Ratings and Characteristics

| | | | |
|--------------------------|--|------------------------------|--------------|
| Storage Temp Range | -25°C to 85°C | Max Temp Rise @Full Load | <35°C |
| Case material | Steel | Max AC Volt Drop @ Full load | <2V/Line |
| Operating Temp Range | -20°C to 50°C | Weight Kg (approx.) | 4 wire 35 |
| Termination Type 250A | Bolt size M10 | | |
| Conforms to | MIL-STD 220A MIL-F-15733-28 REV F:2003-28 Rev F:2003 | | |

Performance Characteristics and Insertion Loss Curves



Schematics



Part No and Ordering Information

| Order Part No | Product Description |
|--------------------------|---|
| SCPVSHIELD250A4SR | SCPV - TEMPEST Shielded Room 250A 4 Wire Filter Three Phase |