

SCPV - TEMPEST Inline Filter - 32AIL

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 **32 Amps** under single phase operating voltage conditions.



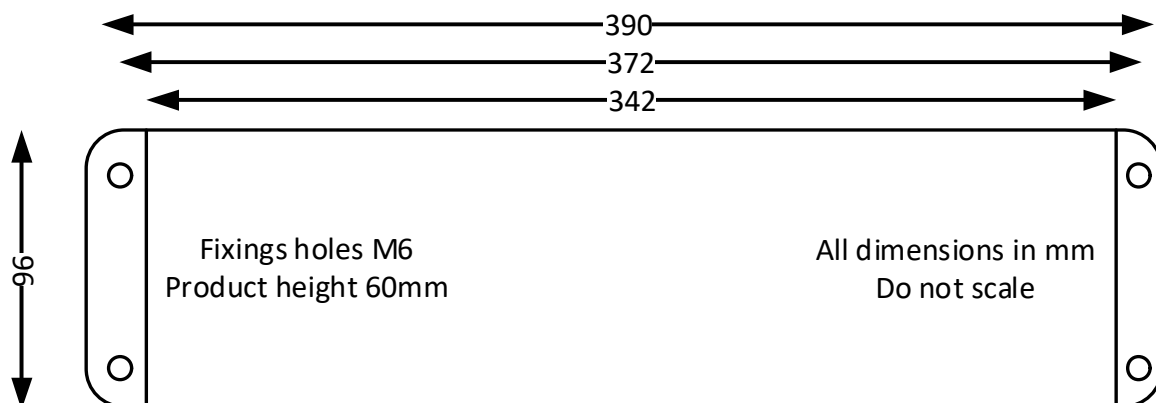
Description

- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core 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
- 32A designs of filter are downline tolerable to a personnel protection RCCD
- UKCA - CE compliant – Input voltage range (90-275VAC)
- Simple mechanical and electrical installation
- Filters comply with basic requirements of the EMC directive 2014/30/EU

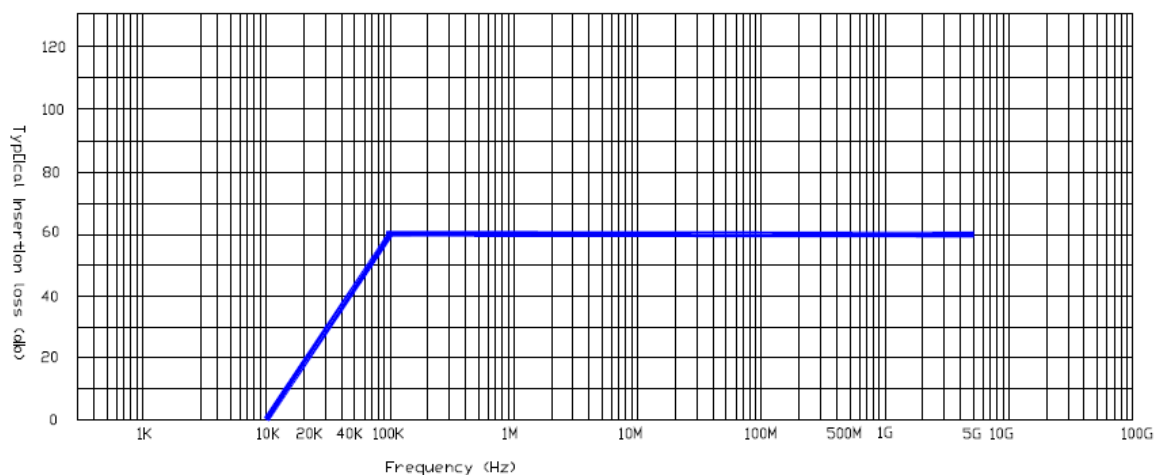
Ratings and Characteristics

| | | | |
|---------------------------|-----------------|---------------------------------|---------------------------|
| Rated Voltage | 230V AC 50/60Hz | 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 | 32A | 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 |
|---|---|
| SCPV – TEMPEST – 32AIL CP&F Part No: SCPVTEMPEST32AIL | Inline 32A Single Phase 230V Tempest Filter |