

SCPV - TEMPEST Inline Filter

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 16 Amps under single phase operating voltage conditions.



Description

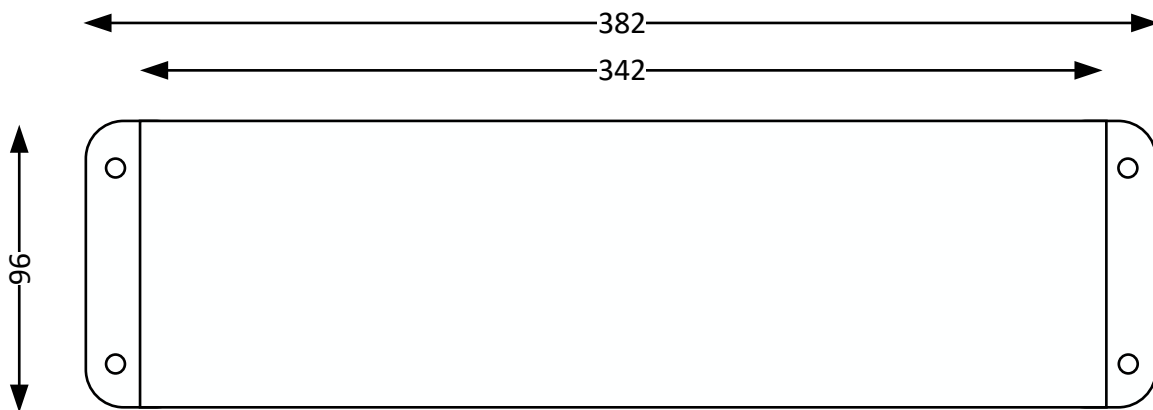
- TEMPEST EMI SP & N filter providing performance to SDIP-27 B/C
- Insertion loss of 60dB from 100kHz to 1GHz
- **2m, 3 core flex cable for input / output connectivity**
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened input cable to maintain red/black separation to filter
- 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 aluminum enclosure
- 16A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation

Ratings and Characteristics

| | |
|---------------------------|-----------------|
| Rated Voltage | 230V AC 50/60Hz |
| Test Voltage (line-earth) | 2250V DC |
| Test Voltage (line-Line) | 1250V DC |
| Rated Current @50°C | 16A |
| Earth Leakage Current | Less than 3.5mA |
| Max Temp Rise @Full Load | <35°C |

| | |
|---------------------------------|--------------------------|
| Storage Temp Range | -25°C to 85°C |
| Operating Temp Range | -20°C to 50°C |
| Insertion Loss (50Ω Asymmetric) | 60dB, 100KHz - 1GHz |
| Discharge Time | Less than 1s to below34V |
| Enclosure | Extruded Aluminum |
| Finish | Powder coated |

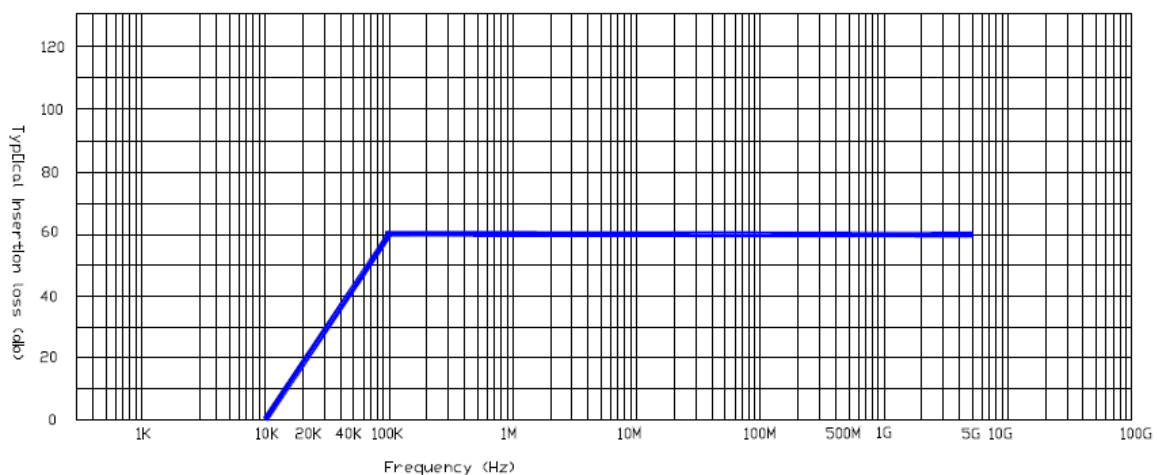
Dimensional Data



Fixing Holes M4
Product Height 60mm

All Dimensions in mm
Do not scale

Performance Characteristics and Insertion Loss Curves



Part No and Ordering Information

| Part No | Product Description |
|------------------------|-------------------------------------|
| SCPV – TEMPEST – 16AIL | Inline 16A Single Phase 230V Filter |