



MPE
Quality, Reliability, Performance

MPE Limited
Hammond Road,
Knowsley Industrial
Park, Liverpool, UK
L33 7UL

Contact
T: +44 (0)151 632 9100
E: sales@mpe.co.uk

www.mpe.co.uk

Product Overview

TEMPEST Pluggable Filters



TEMPEST Pluggable Filters
10/14

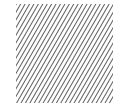
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Introduction



MPE Limited is a world leading manufacturer of high performance EMC/EMP filters and capacitor solutions for supply to the defence, ICT, specialist automotive and other professional industries.

Our history, spanning over 9 decades, is a testament to our unrelenting commitment to

**Quality,
Reliability &
Performance.**

Our Mission

To be the number one choice for high performance EMC/EMP filter solutions.

Quality

Based in Liverpool, UK, MPE Limited is a world leading manufacturer of high performance EMC/EMP filters and capacitor products for supply to the automotive, defence, telecoms and other professional industries.

Our history, spanning over 9 decades, is a testament to our unrelenting commitment to Quality, Reliability & Performance.

Reliability

MPE has gained a much envied reputation for delivering quality products, with the highest levels of reliability. These high reliability levels are ensured and maintained through a diligent approach to design and manufacture; the ability to perform all critical processes and manufacture all critical components in house; coupled with a programme of continuous investment in both people and infrastructures.

Performance

MPE prides itself on the high performance of all products produced. With almost 100 combined design years' experience and over 90 years' manufacturing history, MPE can be sure that the materials, designs and processes it employs deliver both the highest levels of performance and the maximum cost effectiveness.

MPE are an established member of both the EMCIA and EEF organisations, hold numerous product and industry accreditations and are ISO9001 certified.





Description

- TEMPEST SP&N filters providing performance to support installation SDIP-29 protection
- EMI and signal suppression supporting equipment compliance to SDIP-27
- Insertion loss of 60dB from 100kHz to 1GHz
- 6A & 13A BS1363 3 pin plug input & socket outlets
- 32A IEC 60309 'Commando' connector input & BS1363 socket outlets
*alternatively terminated filters (e.g. Powercon, Schuko, IEC etc.) are available upon request
- Designed to IT equipment safety standard EN 60950-1
- Fully 360° screened 2metre 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
- Rugged magnetic stainless steel enclosure
- 6A and 13A designs of filter are downline tolerable to a personnel protection RCCD
- CE compliant
- Simple mechanical and electrical installation



Ratings and Characteristics

- | | |
|---|--|
| • Rated Voltage | 250V ac 50/60Hz |
| • Test Voltage (line – earth) | 2250V dc |
| • Test Voltage (line – line) | 1250V dc |
| • Rated Current, I _r at 50°C | 6A, 13A, 32A (European ratings 6A, 16A, 32A) |
| • Earth Leakage Current | 6A & 13A less than 3.5mA, 32A less than 35mA |
| • Maximum Temperature Rise on Full Load | 25°C |
| • Operating Temperature Range | 25°C to 50°C |
| • Insertion Loss (50Ω, asymmetric) | 60dB from 100 kHz to 1GHz |
| • Discharge Time | Less than 1s to below 34V |
| • Enclosure | Stainless steel |
| • Finish | Natural, brushed |



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Overview

MPE Limited's range of TEMPEST pluggable filters has been designed for use within TEMPEST applications, where protection compliant to SDIP-29 and equipment hardening to SDIP-27 is required. Utilising ultra reliable self healing capacitors, all units deliver optimum performance across the full frequency range and under all loading conditions. The filter range has been designed for use within unprotected power environments to ensure fitting and electrical installation is as quick and simple as possible.

Standard Range

Single Outlet



6A DS30830

13A DS30833

Dual Outlet



6A DS30831

13A DS30834

32A DS30837*

* Commando connector as standard, other termination options available upon request.

European Range

Single Outlet



6A DS30830EU

16A DS30833EU

Dual Outlet



6A DS30831EU

16A DS30834EU

32A DS30837EU*

* Commando connector as standard, other termination options available upon request.

Quad Outlet



13A DS30835

32A DS30838*

* Commando connector as standard, other termination options available upon request.

In-Line



6A DS30832

13A DS30836

32A DS30839

All unterminated. Termination options available upon request.

Quad Outlet



16A DS30835EU

32A DS30838EU*

* Commando connector as standard, other termination options available upon request.

In-Line



6A DS30832EU

16A DS30836EU

32A DS30839

All unterminated. Termination options available upon request.

Please see MPE website for a more comprehensive range of TEMPEST filters or contact MPE sales for application assistance