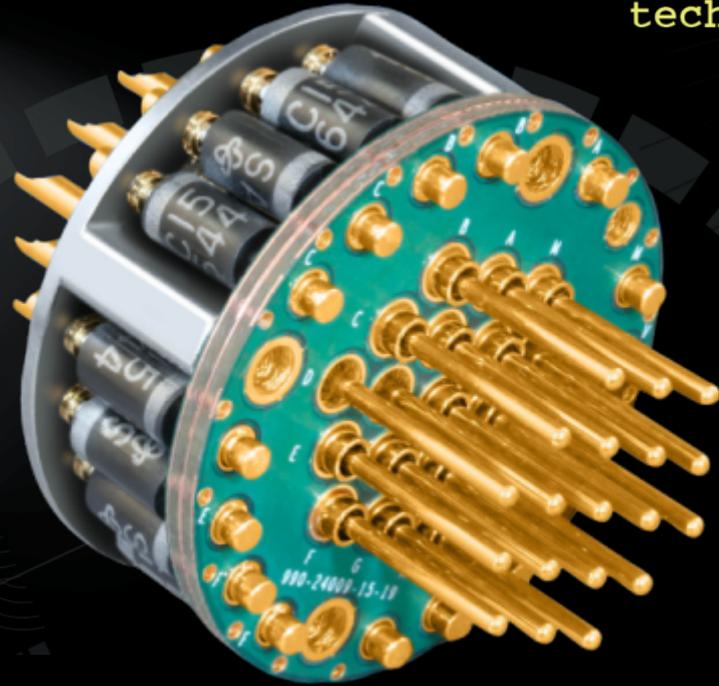


The widest range of
mission-critical interconnect
technologies in the world



**EMI / EMP Filter Connectors and
TVS Devices**

Series 24 EMI/EMP Filter Connectors



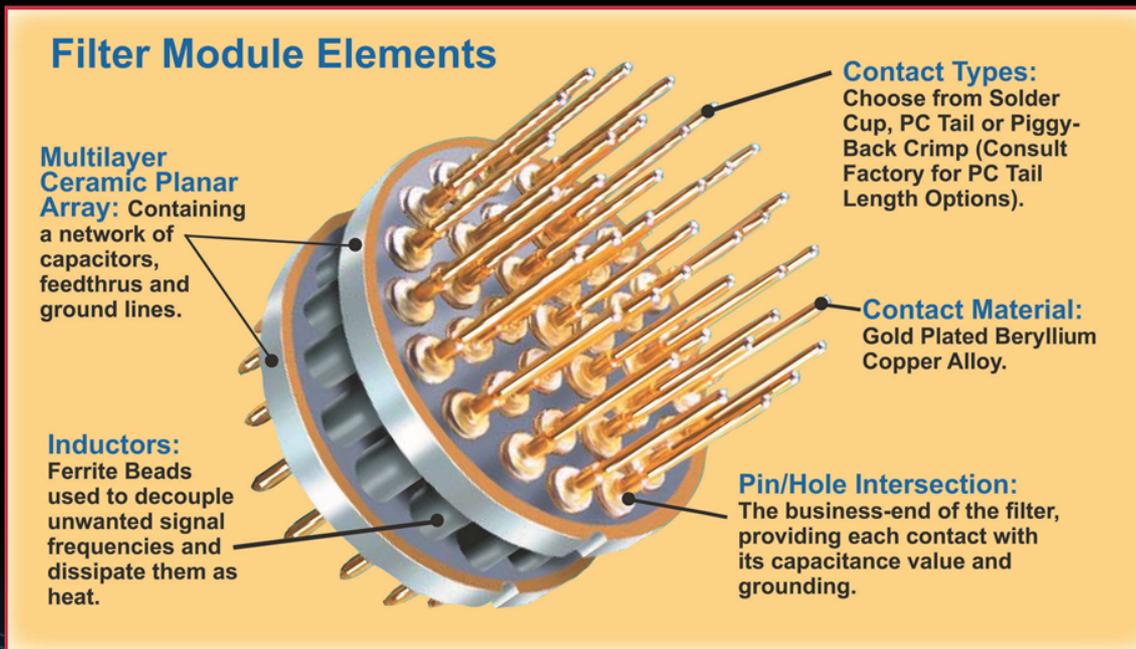
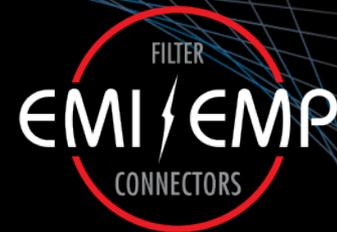
Turnkey in-house fabrication including multi-pin planar arrays

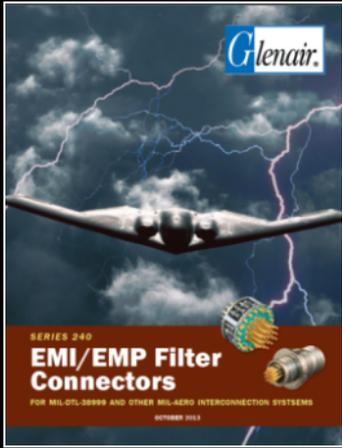
- Turnkey EMI/EMP solutions: from analysis to delivery, Glenair does it fast and right
- Order straight from the catalog or specify a custom design



Basic Filter Array Module Elements

Architecture of planar array enables mixed capacitance values





Standard Catalog

Filter Solutions: Circulars



Series 80
Mighty Mouse



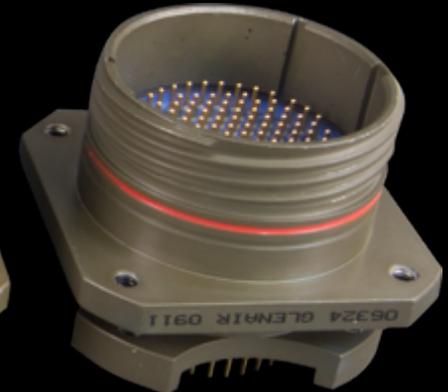
Series 970
PowerTrip™



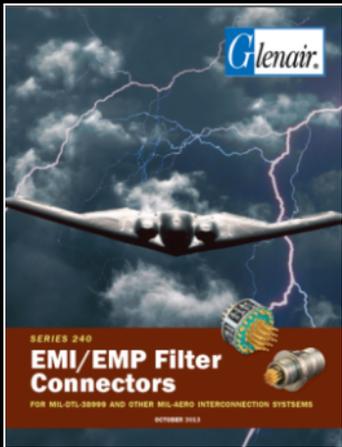
MIL-DTL-5015
type



MIL-DTL-38999
Series I type

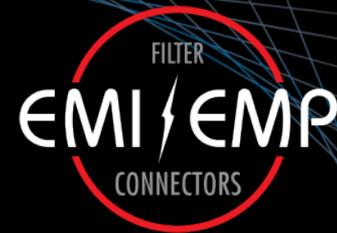


MIL-DTL-38999
Series III type

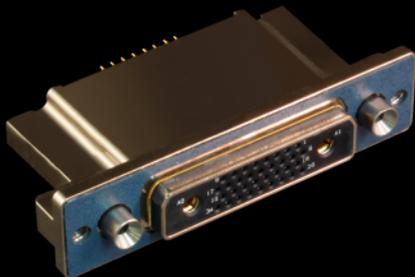


Standard Catalog

Filter Solutions: Rectangular



MIL-DTL-83513



Series 79
Micro-Crimp



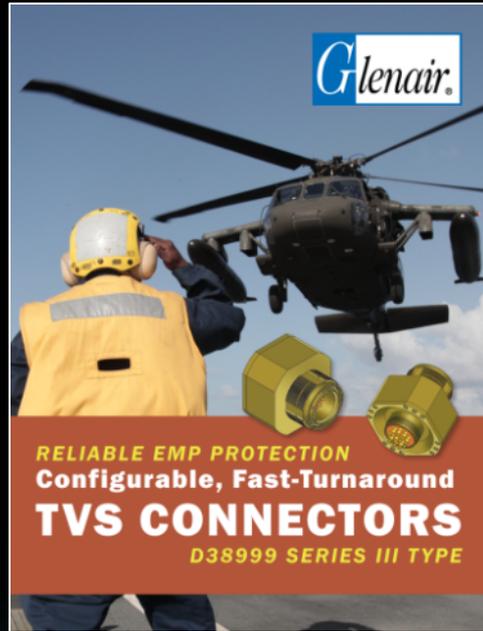
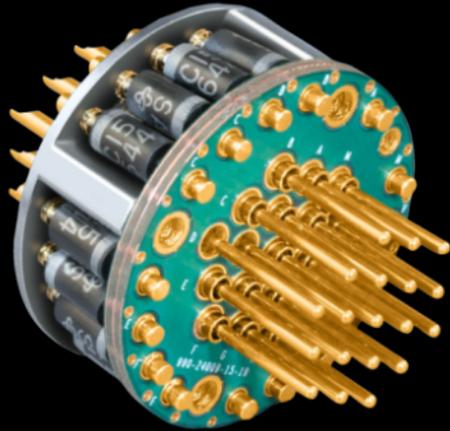
M24308 and
HiPer-D



ARINC
400 and 600

Protecting Sensitive Circuits from EMP

Zener diode equipped EMI/EMP sub-assembly



Glenair EMC Solutions for High-Performance Interconnect Systems



- Full-spectrum EMC capabilities: Screening, grounding, and filtering
- Capacitor array clean room manufacturing
- Unmatched depth of knowledge and technical support in EMC technology
- Burn-in / test services

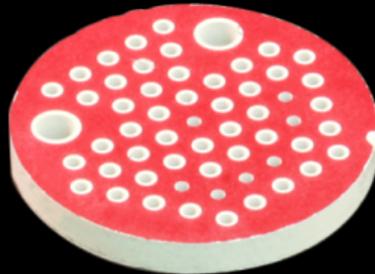


In-House Filter Array Fabrication

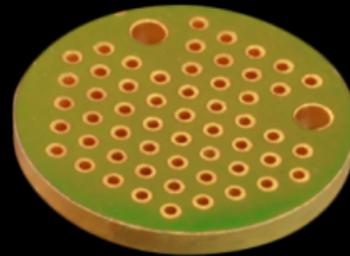
Key process steps



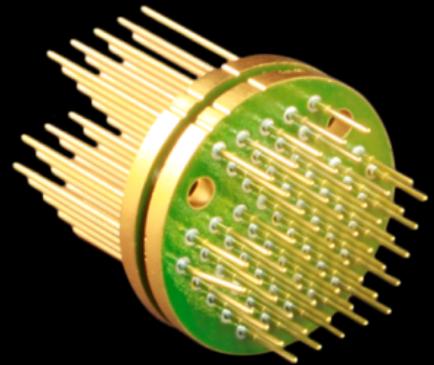
Dielectric powder
is cast into
ceramic tape



An array of ceramic
tape and conductive
layers with varying
capacity is formed

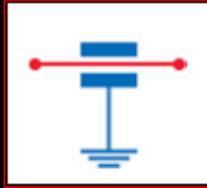


The array is fired.
Pin holes and outside
edge are gold plated



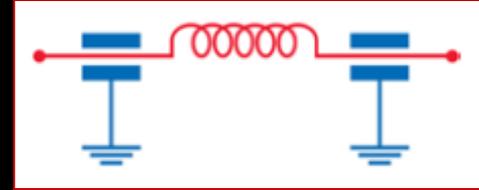
Multiple arrays and
contacts are soldered
together into a
finished sub-
assembly

Comparison of Filter Types



C Filter

- Approx. 20 dB per decade
- Typical application is for power lines



Pi Filter

- Approx. 60 dB per decade
- Degraded performance in high DC current environment
- Typical application is for data lines

Filter Connector Termination Types

For direct PCB and wire-to-board applications



PC tails



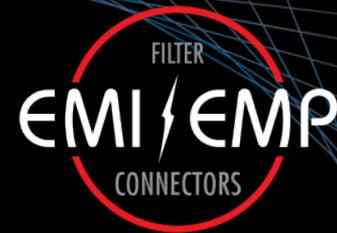
Solder cup



Crimp contact

Filter Connector Sav-Con[®] Connector Savers

For pain-free resolution of EMI in
deployed electronics



Micro-D



D-sub



D38999
Series III

EMITS: EMI Troubleshooting Kit



EMI/RFI filter connector saver sets, available for troubleshooting and test

- Available on loan from Glenair
- Wide range of insert arrangements and capacitance values
- Determine filter type and capacitance before you buy

Series	P/N lead-off	Status
Micro-D	240-033	Size 9 – 37 with <ul style="list-style-type: none">• Class A, Pi filter• Class A, C filter• Class E, C filter
D-Sub	240-051	All M24308 insert arrangements <ul style="list-style-type: none">• Class A, Pi filter• Class A, C filter• Class D, C filter
D38999 Series III	240-383B	40 layouts (socket plug side) universal keyed <ul style="list-style-type: none">• Class A, Pi filter

Filter Connector Package Growth

D38999 Series III Shell Size 19



Non-Filtered



Filtered



TVS Diode

TVS Devices: DO-160 Section 22

The Lightning Handbook

- Damage tolerance standards for electronic equipment subjected to transient voltage events simulating lightning strike
- Interconnecting cable standards subjected to single stroke, multiple stroke, and multiple burst voltage transients to evaluate suppression capability (clamping)



TVS Applications

Commercial and military aerospace as well as industrial electronics surge protection

- Hardening against lightning strike in all classes of commercial and military aircraft
- Electrostatic discharge
- Power surge
- Transient voltage



Catalog TVS Connectors

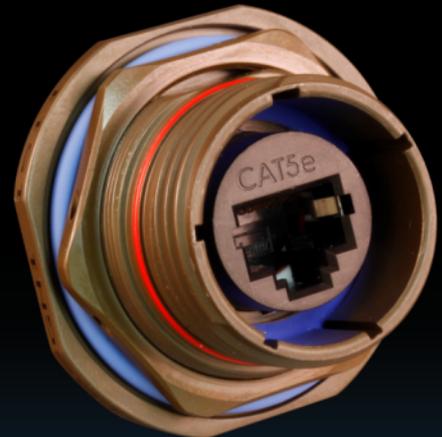
Fastest turnaround

MIL-DTL-38999 Series III type

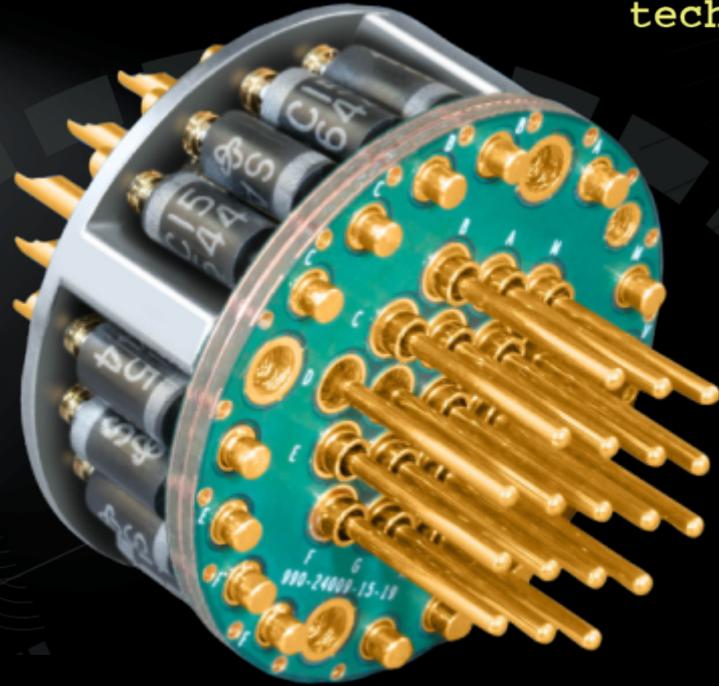
- Sav-Con® adapter
- TVS plug
- TVS receptacle

RJ45 SuperSeal® MIL-DTL-38999 Series III type

- Jam nut and wall mount configurations
- Solder cup or PC tail



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mission-critical interconnect
technologies in the world



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TVS Devices**