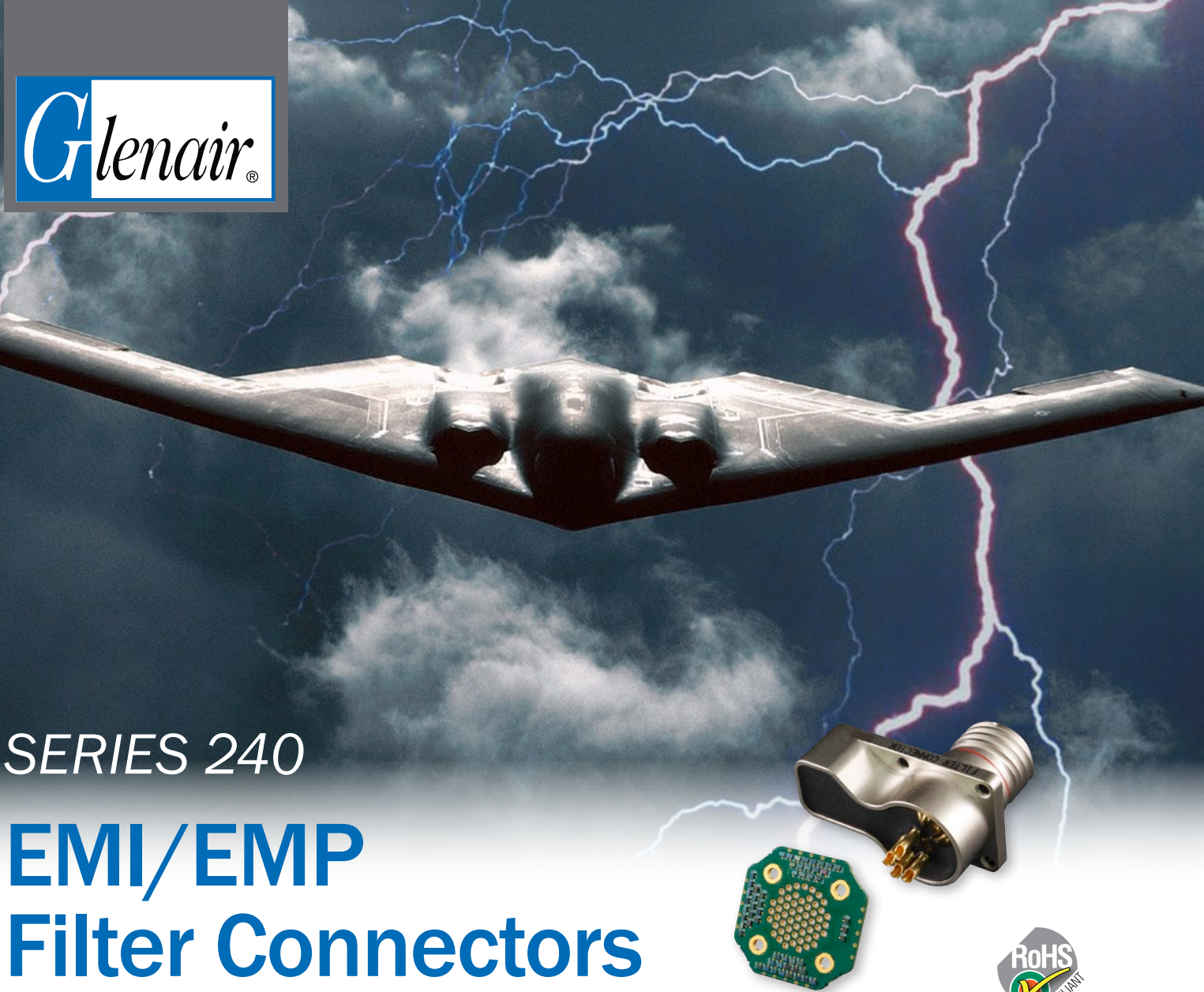




# SERIES 240 EMI/EMP Filter Connectors

Glenair manufactures a full range of filter connectors for use in EMC/EMP management of electronic systems and interconnect cabling. All connectors are designed in accordance with applicable connector specifications, and are designed to mate with plugs with the same insert configuration and opposite contact gender. Planar filter arrays and TVS diodes may be integrated into both standard catalog as well as build-to-order configurations. Glenair's state-of-the-art diode burn-in process tests leaded and surface mount diodes with leakage current monitored throughout the entire test procedure ensuring field reliability.

| Table I: Capacitor Array Code / Capacitance Range |                   |                  |
|---------------------------------------------------|-------------------|------------------|
| Class                                             | Pi - Circuit (pF) | C - Circuit (pF) |
| X                                                 | 160,000 - 240,000 | 80,000 - 120,000 |
| Y                                                 | 80,000 - 120,000  | 40,000 - 60,000  |
| Z                                                 | 60,000 - 90,000   | 30,000 - 45,000  |
| A                                                 | 38,000 - 56,000   | 19,000 - 28,000  |
| B                                                 | 32,000 - 45,000   | 16,000 - 22,500  |
| C                                                 | 18,000 - 33,000   | 9,000 - 16,500   |
| D                                                 | 8,000 - 12,000    | 4,000 - 6,000    |
| E                                                 | 3,300 - 5,000     | 1,650 - 2,500    |
| F                                                 | 800 - 1,300       | 400 - 650        |
| G                                                 | 400 - 600         | 200 - 300        |
| J                                                 | 70-120            | 35-60            |

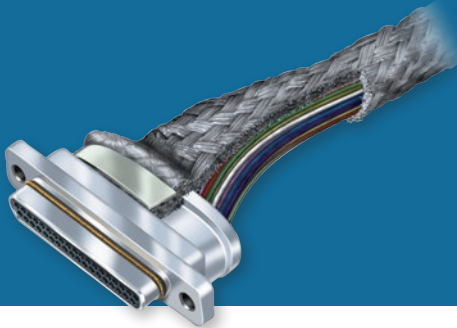


ARINC 600 size 2 filter connector. Glenair also manufactures narrow-profile size 1 and double-wide size 3. All configurations are environmentally sealed for rugged airframe applications.

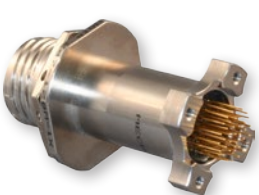


- Planar, multilayer ceramic capacitive filters, with and without transient voltage suppression diodes
- C and Pi electrical configurations
- PC tail, crimp or solder cup termination
- 35 – 240,000 pF capacitance
- Fast and reliable diode burn-in and test services
- Turnkey in-house manufacturing of all filter connector elements and processes

## SERIES 240 EMI/EMP Filter connectors Fast, reliable in-house manufacturing



### UNIQUE AND SPECIAL PURPOSE EMI/EMP FILTER CONNECTORS



Extended-shell  
PC-tail cylindrical with  
threaded standoff



Special-purpose  
filter connector cable  
adapter



Series 80 Mighty Mouse  
PC-tail filter receptacle



MIL-STD-1760 filtered  
umbilical connector

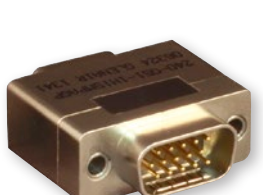


Filter plug with  
crimp contacts

### RECTANGULAR PACKAGING



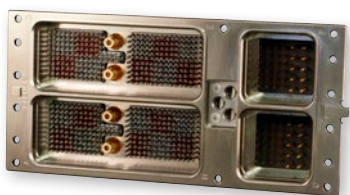
MIL-DTL-83513 type  
micro-D filter connector



MIL-DTL-24308 type  
D-sub filter connector

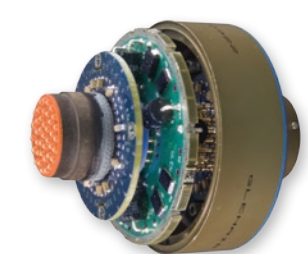


Series 79 Micro-Crimp  
filter connector



ARINC 600 rack and panel  
filter connector

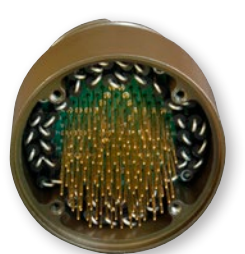
### EMP TRANSIENT VOLTAGE SUPPRESSION DIODE-EQUIPPED



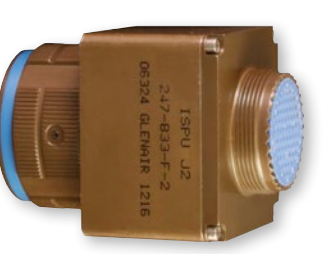
EMP Diode-Equipped Connector  
with Oversized Shell



MIL-DTL-38999 series III type  
EMP connector



Reduced-package-size  
EMI/EMP cylindrical



MIL-DTL-38999 series III type  
EMP with rectangular housing

### THE INDUSTRY'S MOST COMPREHENSIVE AND COMPLIANT FILTER SERVICE

| Requirement Compliance:                            |  |
|----------------------------------------------------|--|
| MIL-STD-449D: RF Spectrum                          |  |
| MIL-STD-461E: EMI Susceptibility                   |  |
| MIL-STD-1310G: Shipboard EMC                       |  |
| MIL-STD-1512: Electroexplosive Subsystems          |  |
| MIL-STD-1541A: EMC for Space Systems               |  |
| MIL-STD-1795A: Aerospace Lightning Protection      |  |
| MIL-STD-1857: Grounding, Bonding and Shielding     |  |
| MIL-STD-1542B: EMC and Grounding for Space Systems |  |
| EN 61000-4-2, 3, 4, 5, 6, 8: EM, RF and Power      |  |
| RTCA/DO-160 Sec 22: Pin/Cable Level and Waveform   |  |

| Connector Series:     |                         |
|-----------------------|-------------------------|
| 38999                 | 83513                   |
| Series I, II, III, IV | 5015                    |
| 26482                 | Sr. 80 Mighty Mouse     |
| 83723                 | Sr. 79 Micro-Crimp      |
| 28840                 | Sr. ITS Reverse-Bayonet |
| 24308                 | Sr. 28 HiPer-D          |
| ARINC 600             | Sr. 970 PowerTrip       |

| Line Types: |                    |
|-------------|--------------------|
| CAN BUS     | TTL                |
| ARINC 429   | Analog Sensors     |
| RS 232      | Thermocouple Wires |
| RS 422      | USB                |
| RS 485      | Ethernet           |

Filter Types

C Single capacitor with low self inductance

Pi Dual capacitors with a single inductive element positioned between.

