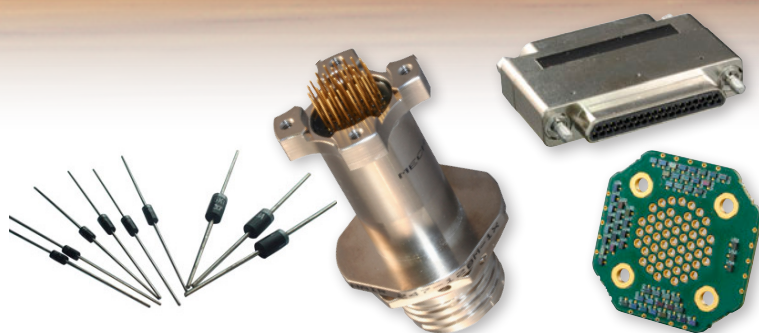




SERIES 240

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.

- **Planar, multilayer ceramic capacitive filters, with and without transient voltage suppression diodes**
- **C and Pi electrical configurations**
- **PC tail or solder cup wire 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**

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.

SERIES 240

EMI/EMP Filter connectors

Fast, reliable in-house manufacturing



EMI Filter Package with TVS EMP Diodes

Unique Filter Package with Sidecar Filter Elements

ARINC Rack and Panel Filter Connector

EMP Diode-Equipped Connector with Oversized Shell

Performance Ratings	
Shock and Vibration	IAW MIL-DTL-38999
Thermal Shock	-55° C to +125° C per EIA-364-32; 380 cycles
Operating Temperature	-55° C to +125° C
Mating Cycles	500 Mating Cycles
Corrosion Resistance	1000 Hours on Stainless Steel Shells
Shielding Effectiveness	Effective over a range of 100MHz to 10GHz with a minimum 50dB effectiveness at 10GHz
Immersion Rating	MIL-STD-810 Method 512; 1 Meter for 1 Hr. (selected series)
Shell-to-Shell Resistance	2.5 Millivolt drop maximum, per EIA-364-83

Electrical Performance	
Current Rating	up to 220 Amps
Capacitance	10pF to 1,000,000pF
Insulation Resistance	5GΩ
Dielectric Withstanding Voltage	100 to 2500 VDC
Dissipation Factor	2.5% Max
Diode Clamping Voltage Range	3.3V to 260V
Diode Peak/Pulse Power	up to 30KW

The Industry's Most Comprehensive and Compliant Filter Service

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

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

Filter Module Elements

Multilayer Ceramic Planar Array: Containing a network of capacitors, feedthrus and ground lines.

Inductors: Ferrite Beads to provide inductance and increase insertion loss

Contact Types: Choose from Solder Cup, PC Tail or Piggy-Back Crimp (Consult Factory for PC Tail Length Options).

Contact Material: Gold Plated Copper Alloy.

Pin/Hole Intersection: The business-end of the filter, providing each contact with its capacitance value and grounding.

Filter Types

C Single capacitor with low self inductance

LC, CL Single capacitor combined with an inductive element

Pi Dual capacitors with a single inductive element positioned between.