

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.

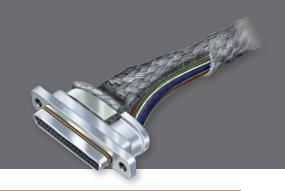
Table I: Capacitor Array Code / Capacitance Range				
Class	Pi - Circuit (pF)	C - Circuit (pF)		
X	160,000 - 240,000	80,000 - 120,000		
Υ	80,000 - 120,000	40,000 - 60,000		
Z	60,000 - 90,000	30,000 - 45,000		
Α	38,000 - 56,000	19,000 - 28,000		
В	32,000 - 45,000	16,000 - 22,500		
С	18,000 - 33,000	9,000 - 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		



- 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

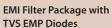
EMI/EMP Filter connectors

Fast, reliable in-house manufacturing



Unique and Special Purpose EMI/EMP Filter Connectors



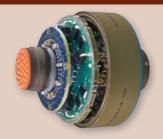




Unique Filter Package with Sidecar Filter Elements



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		

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		

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			

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

