INTERCONNECT SOLUTIONS MISSION-CRITICAL INTERCONNECT SOLUTIONS



Glenar SIGNATURE SERIES

EMI / EMP Filter Connectors

C, L-C, C-L, and Pi Filters, plus TVS Solutions

MILITARY-GRADE EMI/EMP FILTER CONNECTORS



Low-Pass Capacitor Array and TVS Diode-Equipped Technologies



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)		
Х	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 filter arrays and TVS diodes may also be incorporated into rectangular connector packaging such as the Micro-D and Series 79 Micro-Crimp devices shown here.

- Planar, multilayer ceramic capacitive filters, with and without transient voltage suppression diodes
- Space-grade plating and outgassing processing
- 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

MILITARY GRADE

EMI/EMP Filter connectors

Glenair.

Innovative desigins · total vertical integration



Extended-shell PC-tail cylindrical filter with threaded standoff



Special-purpose filter connector cable adapter (Sav-Con®)



Custom reduced-length sidecar filter connector design



Series 80 Mighty Mouse PC-tail filter receptacle



Series 80 Mighty Mouse solder-cup filter receptacle with integrated banding porch



MIL-DTL-38999 type crimp-contact termination filter receptacle



MIL-DTL-38999 Series III type EMP TVS diodeequipped filter connector



MIL-DTL-83723 type filter connector, gold-plated for atomic oxygen corrosion resistance



Quick-disconnect circular with solder-free contact filter array

SERIES 240

MS Type Circular Filter Connectors

The industry's best short lead-time source for planar array type EMI/EMP filter connectors



lenair's family of circular military standard type EMI/EMP filter connectors is designed to meet stringent military/aerospace performance requirements. Each connector series is offered with standard low-pass Pi or C filter arrays, or with customized filters to meet specific frequency and capacitance requirements. Thermally conductive epoxy protects the filter package from mechanical and heat stress and also provides a waterproof seal. All filtered receptacles are intermateable with standard plugs and connector savers, and each respective series of connectors is supplied with a range of shell styles in both environmental and hermetic configurations.

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.

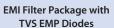
EMI/EMP Filter connectors



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	

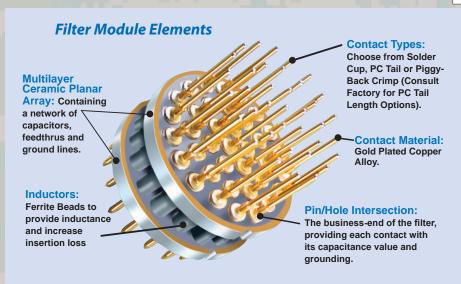
The Industry's Most Comprehensive and Compliant Filter Service

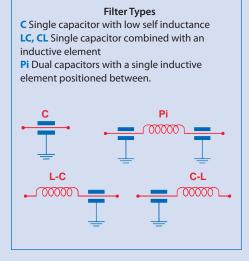
Connector Series:		
38999	83513	
Series I, II, III, IV	5015	
26482	Sr. 80 Mighty Mouse	
83723	Sr. 79 Micro-Crimp	
28840	Sr. ITS Reverse-Bayonet	
24308	Sr. 28 HiPer-D	
ARINC 600	Sr. 970 PowerTrip	

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







INTERCONNECT SOLUTIONS

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