RF Immunity
The Filtered Connector Specialist

Company Profile

RF Immunity established in 2002, as a privately owned company that specializes in the design and manufacturing of EMI/RFI filtered connectors, transient protection connectors, hermetically sealed and customized connectors. Our products are based on highly advanced filtering technologies and techniques, and excel in the design and manufacturing of unique filtering solutions, made to meet the specific requirements of each customer.
The miniaturized RF Immunity products are renowned for their quality and they perform perfectly under extreme environmental conditions.
The qualities of RF Immunity products make them an ideal choice for a variety of applications including military, commercial, avionic and more. These products cover diverse forms of frequency filtering: filtered connectors and filtered units for single line as well as for multi–channel configurations, and protective devices for power supply systems.
We place much focus on designing customer specific solutions, protecting their devices from EMI/RFI threats and assuring a reliable and effective solution.
RF Immunity is a well–established company leading the Israeli market with proven capability and experience in the military, industrial and medical arenas. The innovative and highly advanced Israeli technology markets create an abundance of RFI/EMI challenges. These challenges are successfully met by RF Immunity to the complete satisfaction of its customers fulfilling all the necessary requirements.

Quality Assurance

RF Immunity quality program is ISO 9001 certified and is applied in accordance with the STS (Ship to Stock) method quality program of prime customers.
All our products are subject to meticulous and tightly–controlled test procedures carried out with top–quality tools; from component acceptance inspection, through process control to final examination of the completed products

NSF ISR

Reference Standards

MIL-STD-461, MIL-STD-1275, MIL-STD-704, MIL-STD-1399, RTCA-DO/160D, MIL-STD-220

RF Immunity has distributors all around the world

For local distributor, visit our web site

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RF Immunity
The Filtered Connector Specialist

An Innovative Technology of Frequency Filtering

www.rfimmunity.com

Filtered Military Connectors

- Effective solutions for Avionic, Naval and Ground applications
- Filtering all types of metal connectors; Receptacles and Plugs
- Available with Filters, Transient Protections and Hermetically sealing
- Available with L, C, LC, CL, PI, T filters and doubled topologies
- Selective Working Voltage, Filter Type and Topology for each contact
- Fits all Power, Control & Communication Lines
- Effective Frequency Range starting at 10kHz up to 20Ghz
- Applicable terminations for PCB mounting, wiring (solder cups) or crimping
- Generally, the external dimensions of the original connectors are kept

Rack and Panel Connectors
MIL-C-83733 / DPK
ARINC 404 / DPX
ARINC 600

Circular Connectors
MIL-C-38999
MIL-C-26482
MIL-C-83723
MIL-C-55116 (Audio Applications)
MIL-C-5015, VG95351 and other families

D-Sub Filtered Connectors

MIL-DTL-24308
MIL-DTL-83513 (Micro D-Sub — MDM)

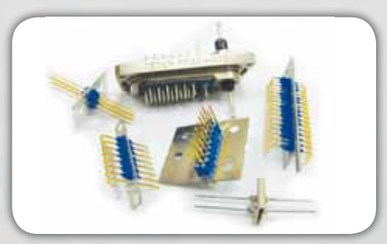
- D-sub Connectors commercial type to meet and exceed the requirement of the FCC P-15, IEC 1000, EN55022, ENG1000 standards.
- RoHS compliance certificate (Commercial).
- Standard and High Density and Combo D-Sub.
- Wiring (Solder Cup), PCB Straight or 90° (Right Angle) mounting termination.
- Available with L, C, LC, CL and PI filters topologies.
- Selective Working Voltage, Filter Type and Topology for each contact.
- Available with Filters, Transient Protection and Hermetically sealing in the same connector case.

TVS and Lightning Protection Connectors

- Transient Voltage Suppressors integrated into the connector, achieve most effective suppression.
- Standard capability of up to 0.6 Joule without enlarging the connector.
- EFT (Electrical Fast Transient) & Lightning Protection integrated into the rear side of an enlarged connector.
- TVS can be combined with EMI filters or as a stand alone solution.
- Very low capacitance for high speed communication lines.

Feed Through & Filter Array

- Bolt In and Threaded Feed Through line filters
- Available with C, LC, CL, PI and T filter topologies.
- Resin or Hermitically glass sealing.
- Applicable for DC, AC and Communication.
- Comply to MIL-STD-28861 and MIL-STD-15733 standard.
- Fully customized items are also available.



Custom and Hermetically Sealed Connectors

- Special Mechanical forms with special terminal connections according to customer requirements.
- Adapters for Circular, Rectangular and D-sub connectors.
- Environmental sealing to level of < 10^{-3} cm^3/s at ΔP = 1Atm
- Hermetically sealed to level of < 10^{-5} cm^3/s at ΔP = 1Atm