

EMI-Filtered High-Performance D-Sub Pi Adapters and Connectors >

Compact and highly efficient, EMI-Filtered High-Performance D-Sub Pi Adapters and Connectors provide a reliable solution to mitigate electromagnetic interference (EMI) in demanding environmental electronic systems. These products enhance signal integrity (SI), comply with regulatory standards and offer a versatile, space-saving design that simplifies implementation while improving the overall performance and reliability of system applications.

ADVANTAGES AND FEATURES

Provides efficient space utilization

EMI filters built into the connectors offer additional space on the PCB board.

Withstands lightning and AC transient environment conditions (up to DO160 Level IV)

Transient options are available.

Enhances high-frequency performance

One-piece, die-cast connector shells have ground-plane shielded interface.

Promotes consistent performance with power and signal filtering in a single package

A large capacitance pin-to-pin ratio range is included.

Current	5.0A; RF current-0.3A
UL Recognized	Yes
Shell Sizes	9, 15, 25, 37, 50
Operating Temperatures	-55 to +125°C

Offers vertical integration; saves time

These products are manufactured in the US for control over supply chain.

Allows superior performance and minimal impedance compared to onboard filter with high impedance

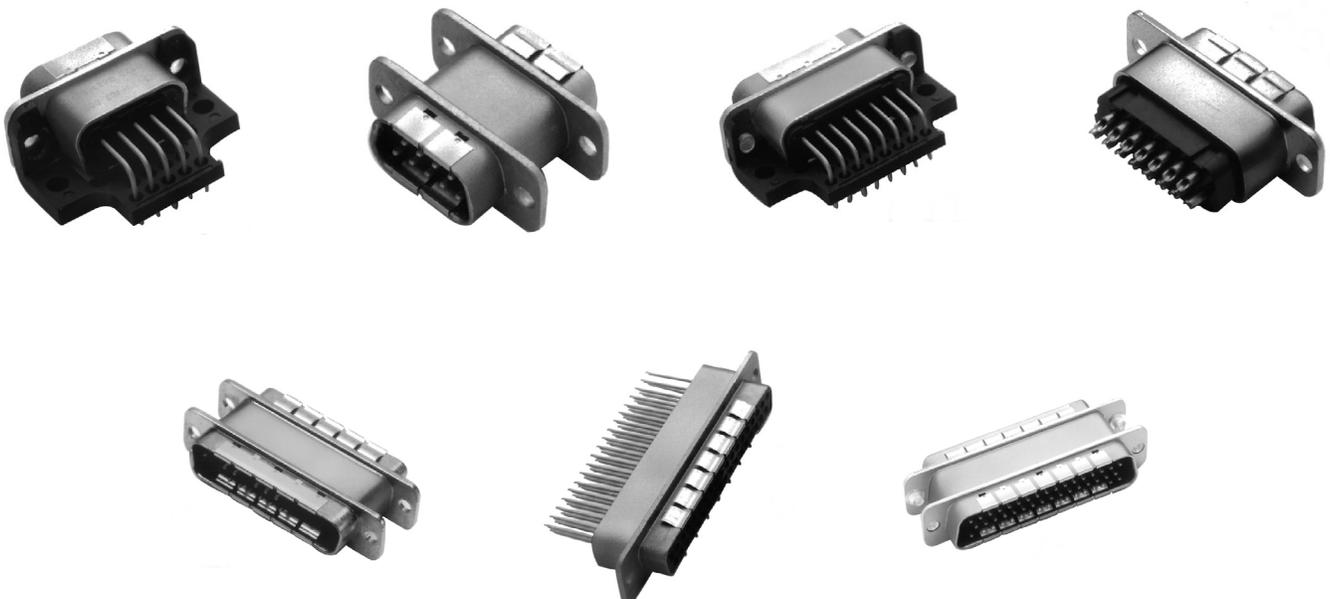
These connectors have low ground impedance.

Provides versatility for ease of design

The adapters and connectors are available in an extensive selection of mechanical configurations.

Saves PCB space

Grounded and insulated lines are in the same connector.



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APPLICATIONS

Military and Commercial aircrafts

Flight controls
Engine controls
Navigation systems

Military (defense)

Tactical weapons
Unmanned aerial vehicle (UAV)
flight controls
Target acquisition systems
Night vision sensors
Airborne radios

Medtech

Electronics
Imaging equipment

Telecommunications

Cellular base stations
Mobile/cellular repeaters

Industrial automation

Process equipment
Gas monitors



Navigation Systems



UAV Flight Controls



Imaging Equipment



Cellular Base Stations



Gas Monitors

SPECIFICATIONS

Electrical

Voltage (max.): 100V
Current (max.): 5.0A
RF Current (max.): 0.3A
Contact Resistance (max.): 10 milliohms
UL recognized: Yes

Mechanical

Shell Sizes: 9, 15, 25, 37, 50
Contact Type/Terminations

- Pin to 90° PCB mount
- Pin to solder cup
- Pin to straight PCB mount
- Pin-socket adapter
- Socket to 90° PCB mount
- Socket to solder cup
- Socket to straight PCB mount

Physical

Operating temperatures: -55 to +125°C
Grounding Springs: Beryllium copper, tin plated per MIL-T-10727
Connectors designed to MIL-DTL-24308
Options

- Threaded locking inserts
- Grounding bracket
- Grounding bracket with board lock

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Capacitance		3dB Max Cutoff Freq. (MHz)	Dielectric Withstanding Voltage	Contact Rating	Contact Resistance	Working Voltage DC -55 to 125° C	Minimum Insertion Loss (dB)							
PICOFARAD (pF)	Tolerance						5 MHz	10 MHz	20 MHz	50 MHz	100 MHz	200 MHz	500 MHz	1 GHz
100pF	+100%/-0%	32.0	300V	5.0A	10 Milliohms Max	100V	-	-	-	2	5	8	16	33
1000pF	+150%/-0%	3.2	300V			100V	-	3	8	17	27	39	58	70
2500pF	+100%/-0%	1.3	150V			50V	6	10	15	30	42	55	70	70
4000pF	+100P/-0%	0.8	150V			50V	8	13	20	37	50	64	70	70

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