
100pF Filtered DB25 M/F Bulkhead Connector

CONN346



Overview:

The CONN346 is a 25 Pin Bulkhead Male to Female 100pF Pi Filtered D-Subminiature connector. This connector will provide RF filtering for many different applications. The CONN346 is our lowest filtered DB25 interface. When selecting a DB25 interface, RF insertion loss is inverse to data speed allowed.

Applications:

- RF Shielded Test Enclosures or Screen Rooms.
- Ethernet Pass Through with STERJ45.
- I²C data.
- Switching Circuits.
- Audio Circuits.
- Low voltage DC.
- Low voltage AC.

Features:

- Provides RF filtering to maintain an enclosure's high RF isolation level while providing a feed-through path for electrical circuits.
- Nickel plated metal construction to provide good RF bond to enclosure, screen room, or RF test equipment.
- Easy connection via standard serial cables.



Specifications:

Electrical:

Working Voltage: 100VDC.
Maximum Current: 5 Amps.
RF Current: 0.3 Amps.
Contact Resistance: 10 Milliohms maximum.
Dielectric Withstanding Voltage: 300V.
Capacitance: 100pF (+100% -0%).
Filter Type: Pi Filter.
3dB Cutoff Frequency: 32MHz maximum.
Filter Inductance: ~860nH between 100kHz and 1MHz.
Conductive Insertion Loss (Min): 2dB @ 50MHz
5dB @ 100MHz
16dB @ 500MHz
33dB @ 1GHz

Mechanical:

Pins: 25 Pins, Male/Female.
Operating Temperature: -55°C to +125°C.
Shell: Zinc or aluminum diecast, Nickel plated 150µ inches (3.8µm) min.
Pin Contacts: Copper Alloy, 15µ inches (.38µm) gold plated over nickel.
Socket Cup Contacts: Copper Alloy, 30µ inches (.76µm) gold plated over nickel.
Accepts 20 gauge wire.
Ground Plane: Brass, Solder plated.

Typical Insertion Loss



