



100pF Filtered DB9 M/F Bulkhead Connector

CONN207



Overview:

The CONN207 is a 9 Pin Bulkhead Male to Female 100pF Pi Filtered D-Subminiature connector. This connector will provide RF filtering for many different applications. In our RF Shielded Test Enclosures, we mainly use the CONN207 interface for passing Ethernet Communications. When used as an Ethernet interface, it will allow for approximately 650Mbps maximum Ethernet data speed. To be used as an Ethernet interface, it will require the use of an STERJ45 adapter set. When it comes to RF insertion loss, this DB9 interface is in the middle of our DB9 options. When selecting a DB9 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:

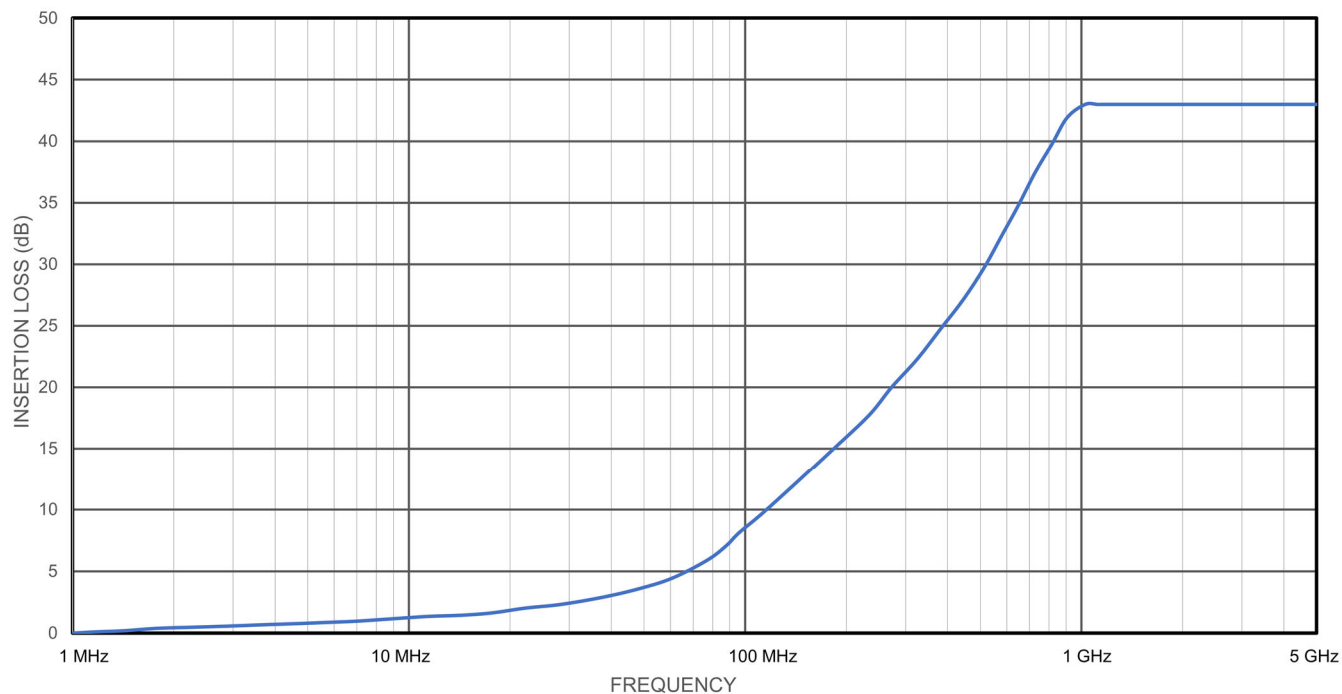
Electrical:

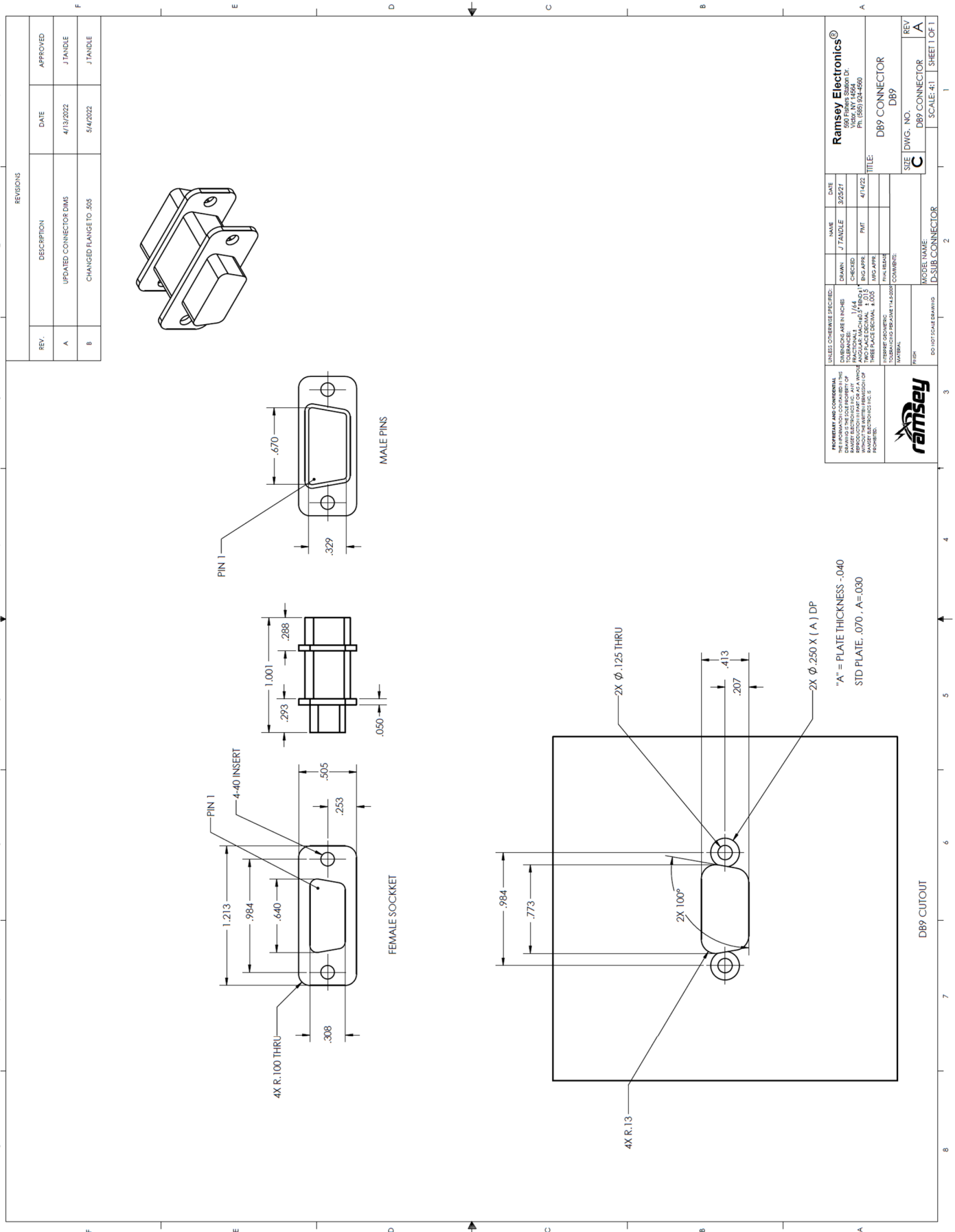
Working Voltage: 100VDC.
Maximum Current: 5 Amps.
RF Current: 0.3 Amps.
Contact Resistance: 10 Milliohms maximum.
Dielectric Withstanding Voltage: 300V.
Capacitance: 100pF (+100% -0%).
Filter Type: Pi Filter.
3dB Cutoff Frequency: 32MHz maximum.
Filter Inductance: ~860nH between 100kHz and 1MHz.
Conductive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

Mechanical:

Pins: 9 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





The information in this datasheet, although believed to be accurate, is not to be taken as warranty for which Ramsey Electronics assumes legal responsibility. Ramsey Electronics reserves the right to make changes, corrections, and improvements to its products and/or this document at anytime without notice.