

IntelliConnect

A Different Kind of Interconnect Solutions Provider

Product Data Sheet

SERIES BMA SUB-MINIATURE CONNECTORS

Typical Applications – Mil-Aero, Safety, Radar, Marine, SCADA and Telematics

GENERAL DESCRIPTION

This miniature connector series is designed to be compatible with the small semi-rigid cables that have very low VSWR up to 22 GHz. In addition, other connectors in the series can accommodate flexible coaxial cable, PCB, flange, surface and bulkhead configurations. These connectors are ideal for use in rack and panel applications.



MATERIALS/ Plating Options

Bodies & Other Parts: Brass per ASTM B16 or Stainless Steel per ASTM A582 Nickel: Per QQ-N-290, Class II, Silver: Per QQ-S-365, Type II, Grade A, Passivate: Per QQ-P-35, Type II, Gold: Per MIL-G-45204, Type II, Grade C

Female Contacts: Beryllium Copper per ASTM B196 or equiv. Gold: Per MIL-G-45204, Type II, Grade C, Silver: Per QQ-S-365, Type II, Grade A

Male Contacts: Brass per ASTM B16 or equivalent. Gold: Per MIL-G-45204, Type II, Grade C, Silver: Per QQ-S-365, Type II, Grade A

Insulators (Dielectric): PTFE Fluorocarbon per ASTM D1710 or equivalent.

Gaskets: Silicone Rubber per AA59588 or equivalent.

MECHANICAL SPECIFICATION

Force to Engage and Disengage: 3 in-lbs./1.5 in-lbs max.

Center Contact Retention: 6lbs. min.

Misalignment Allowance:

Rigid Mounting: Axial: .015 max., Radial: .008 Max.

Floatmount: Axial: .060max, Radial: .020 max

Mating Cycles: 500 min.

ELECTRICAL SPECIFICATION

Impedance: 50 Ohms Nominal

Frequency Range: DC-22 GHz

Insulation Resistance: 5,000 Megohms min.

Voltage Rating: 335 VRMS

Dielectric Withstanding: 1,500 VRMS at sea level

Voltage Standing Wave Ratio (VSWR): 1.05 max.

Contact Resistance: Outer Contact: 2 Milliohms, Center Contact: 2 Milliohms

ENVIRONMENTAL SPECIFICATION

Temperature rating: -65°C to +125°C

Vibration: MIL-STD-202, Method 204

Shock: MIL-STD-202, Method 213

Thermal Shock: MIL-STD-202, Method 107

Corrosion (Salt Spray): MIL-STD-202, Method 101

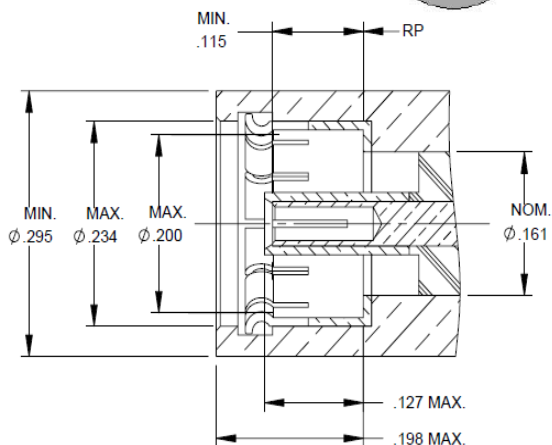
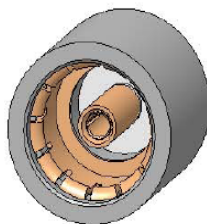
Moisture Resistance: MIL-STD-202, Method 106

DESIGNED IN ACCORDANCE WITH:

US MIL-PRF-31301, MIL-STD-348

INTELLICONNECT: ES101, ES103

JACK INTERFACE (FEMALE CONTACT)



PLUG INTERFACE (MALE CONTACT)

