IntelliConnect *"Intelligent Connections"*

* (STANDARD) SERIES SMB

GENERAL DESCRIPTION

This miniature connector series is designed to be compatible with the small semi-rigid and flexible cables such as RG316, RG174 and RG196. In addition, other connectors in the series can accommodate PCB, surface, edge and bulkhead configurations. This series is designed with a snap on mechanism. They are mated and unmated by a straight pull which makes them useful in areas that are inaccessible to normal mating action. The plugs have female contacts while the jacks have male contacts.

MATERIALS

Bodies & Other Parts: Brass per ASTM B16 or equivalent.
Female Contacts: Beryllium Copper per ASTM B196 or equivalent.
Male Contacts: Brass per ASTM B16 or equivalent.
Insulators (Dielectric): PTFE Fluorocarbon per ASTM D1710 or equivalent.

PLATING OPTIONS

Gold: Per MIL-G-45204, Type II, Grade C
Nickel: Per QQ-N-290, Class II
Silver: Per QQ-S-365, Type II, Grade A

ELECTRICAL

Impedance: 50 Ohms Nominal
Frequency Range: DC-4 GHz
Insulation Resistance: 1,000 Megohms min.
Voltage Rating: 335 VRMS
Dielectric Withstanding: 750 VRMS at sea level
Voltage Standing Wave Ratio (VSWR): 1.30 +.04 (f) GHz max.
Contact Resistance:
Outer Contact: 1.0 Milliohms
Center Contact: 6.0 Milliohms

MECHANICAL

Force to Engage: 14 lbs. max.
Force to Disengage: 2 lbs. min.
Mating Cycles: 500 min.

ENVIRONMENTAL

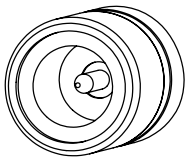
Temperature rating: -65°C to +165°C
Vibration: MIL-STD-202, Method 204
Shock: MIL-STD-202, Method 213
Thermal Shock: MIL-STD-202, Method 107
Corrosion (Salt Spray): MIL-STD-202, Method 101
Moisture Resistance: MIL-STD-202, Method 106

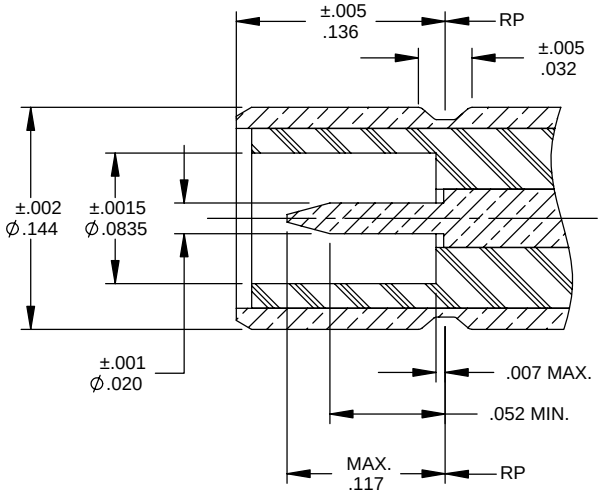
DESIGN IN ACCORDANCE WITH

US MIL-PRF-39012, MIL-STD-348
CECC: 22 130
IEC: 169-10
INTELLICONNECT: ES101, ES103

JACK INTERFACE

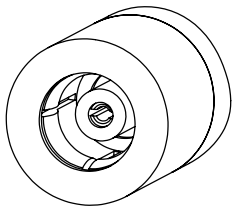
(MALE CONTACT)

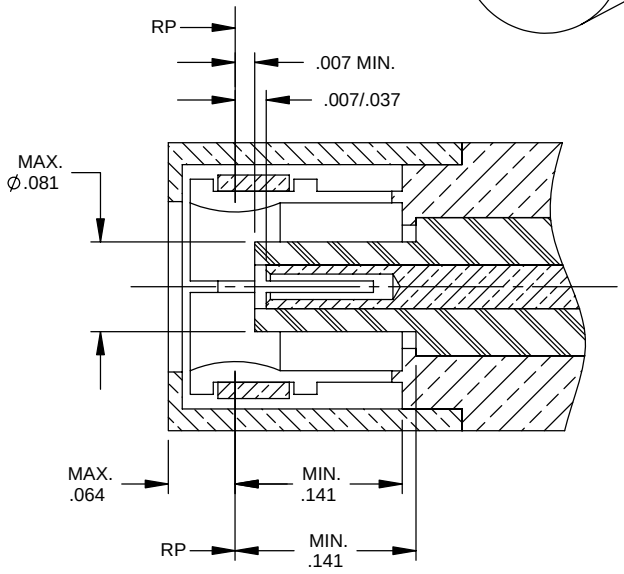




PLUG INTERFACE

(FEMALE CONTACT)





**These specifications are typical and may not apply to all connectors. Please contact the factory for detailed specifications for individual connectors. For clarity, interface illustrations are not drawn to scale. All dimensions are in inches. Interface dimensions are designed per documents above.*