

IntelliConnect

A Different Kind of Interconnect Solutions Provider

Product Data Sheet

SERIES 2.92mm SUB-MINIATURE CONNECTORS

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

GENERAL DESCRIPTION

The 2.92mm connector series is designed for applications requiring superior performance up to 45 Ghz. This series offers improvements over a standard SMA connector with an increase in performance achieved by an air dielectric over most of the connector length and an increase in body strength achieved by an outer conductor reduction to Ø2.92mm (.1150 in). This series has a 1/4-36 screw thread coupling mechanism and is compatible with SMA and 3.5mm connectors.



MATERIALS/ Plating Options

Bodies & Other Parts: Stainless Steel per ASTM A582 Passivate: Per QQ-P-35, Type II, Gold: Per MIL-G-45204, Type II, Grade C

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

Insulators (Dielectric): PPO (Polyphenolic Oxide) or equivalent.

Gaskets: Silicone Rubber per AA59588 or equivalent.

MECHANICAL SPECIFICATION

Force to Engage and Disengage: 2 in-lbs. max.

Coupling Proof Torque: 7-10 in-lbs. min.

Coupling Nut Retention Force: 60 lbs. Min.

Mating Cycles: 500 min.

ELECTRICAL SPECIFICATION

Impedance: 50 Ohms Nominal

Frequency Range: DC-45 GHz

Insulation Resistance: 5,000 Megohms min.

Voltage Rating: 335 VRMS

Voltage Standing Wave Ratio (VSWR): 1.05 max.

Contact Resistance: Outer Contact: 2 Milliohms, Center Contact: 3 Milliohms

ENVIRONMENTAL SPECIFICATION

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

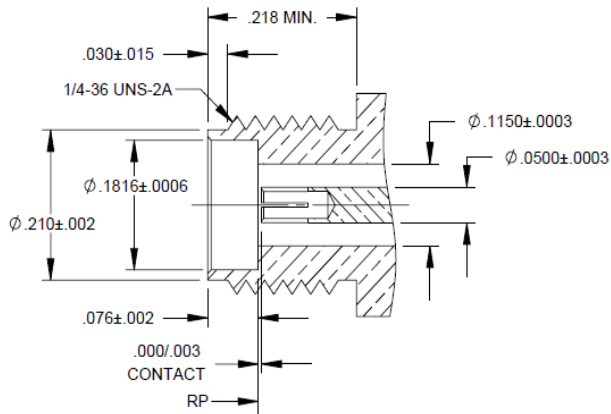
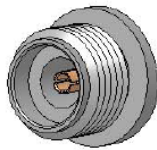
Moisture Resistance: MIL-STD-202, Method 106

DESIGNED IN ACCORDANCE WITH:

IEEE STD. 287

INTELLICONNECT: ES101, ES103

JACK INTERFACE
(FEMALE CONTACT)



PLUG INTERFACE
(MALE CONTACT)

