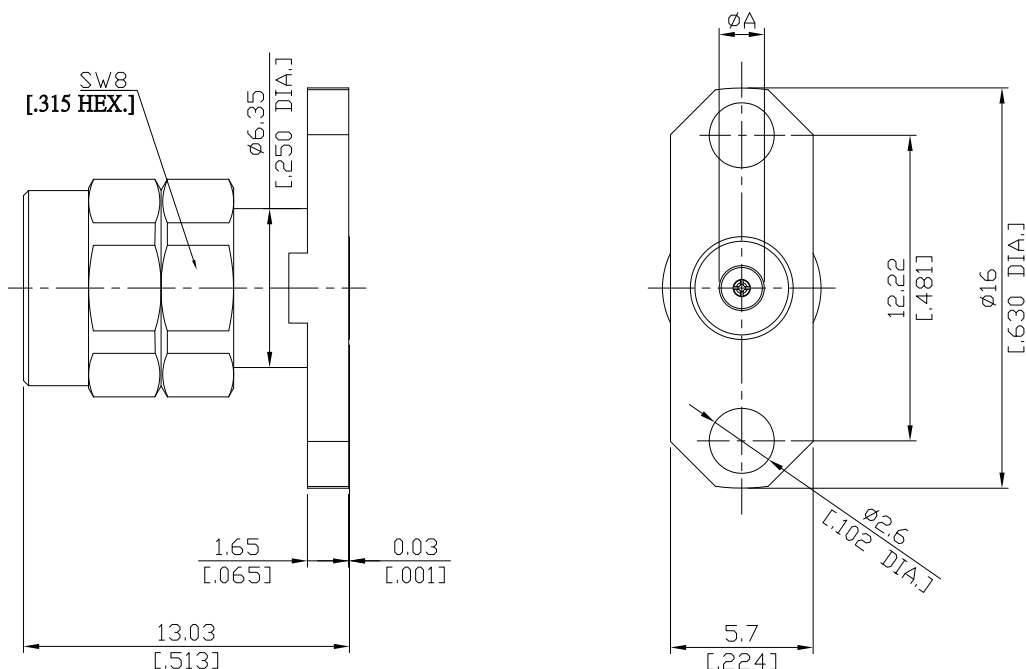


2.4mm Plug (male) Connector 2 Straight Field Replaceable  
12.22mm (.481 inch) Hole Spacing, DC-50GHz VSWR 1.15

**Q1BT50-0009A / 9XX**



| Rosnol P/N       | Pin size    | Max. pin depth | Ø A          |
|------------------|-------------|----------------|--------------|
| Q1BT50-0020A/9XX | 0.51 [.020] | 1.65 [.065]    | 1.65 [.0651] |
| Q1BT50-0012A/9XX | 0.30 [.012] | 2.16 [.085]    | 1.23 [.0483] |
| Q1BT50-0009A/9XX | 0.23 [.009] | 1.65 [.065]    | 1.07 [.0421] |

All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

According to

IEC 61169-35 ; MIL-STD-348B/324

**Electrical Data**

|                           |                      |
|---------------------------|----------------------|
| Impedance                 | 50 Ω                 |
| Frequency                 | DC to 50 GHz         |
| VSWR (Return loss)        | ≤1.15 (≥ 23.13 dB)   |
| Insertion Loss            | ≤ 0.01 x √F (GHz) dB |
| Insulation Resistance     | ≥ 5 GΩ               |
| Center Contact Resistance | ≤ 3.0 mΩ             |
| Outer Contact Resistance  | ≤ 2.0 mΩ             |
| Test Voltage              | 750V rms             |
| Working voltage           | 250 V rms            |
| Power handling            | ≥ 100 dB up to 1 GHz |

**Material And Plating**

| Piece Parts    | Material         | Plating                                                                          |
|----------------|------------------|----------------------------------------------------------------------------------|
| Centre contact | Beryllium Copper | Gold plating, 3 μinch<br>(Non-magnetic nickel-phosphorus underplating, 80 μinch) |
| Body           | Stainless Steel  | Passivated                                                                       |
| Insulator      | PEI              |                                                                                  |
| Gasket         | Silicone Rubber  |                                                                                  |
| Coupling nut   | Stainless Steel  | Passivated                                                                       |

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:  
Date:  
JUL/16/2021

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Page

1/2

2.4mm Plug (male) Connector 2 Straight Field Replaceable  
12.22mm (.481 inch) Hole Spacing, DC-50GHz VSWR 1.15

## Q1BT50-0012A / 9XX

### Mechanical Data

|                                   |                    |
|-----------------------------------|--------------------|
| Coupling mechanisms               | Screw-lock         |
| Mating Cycles                     | ≥ 500              |
| Captivated Type                   | Mechanical         |
| Center Contact Captivation: axial | ≥ 20 N             |
| Coupling Test Torque              | 1.70 Nm            |
| Recommended Torque                | 0.80 Nm to 1.10 Nm |

### Environmental Data

|                     |                                 |
|---------------------|---------------------------------|
| Temperature Range   | -55°C to +165°C                 |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. D |
| Shock               | MIL-STD-202, Meth. 213, Cond. G |
| Moisture Resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

### Packing

Single or 100