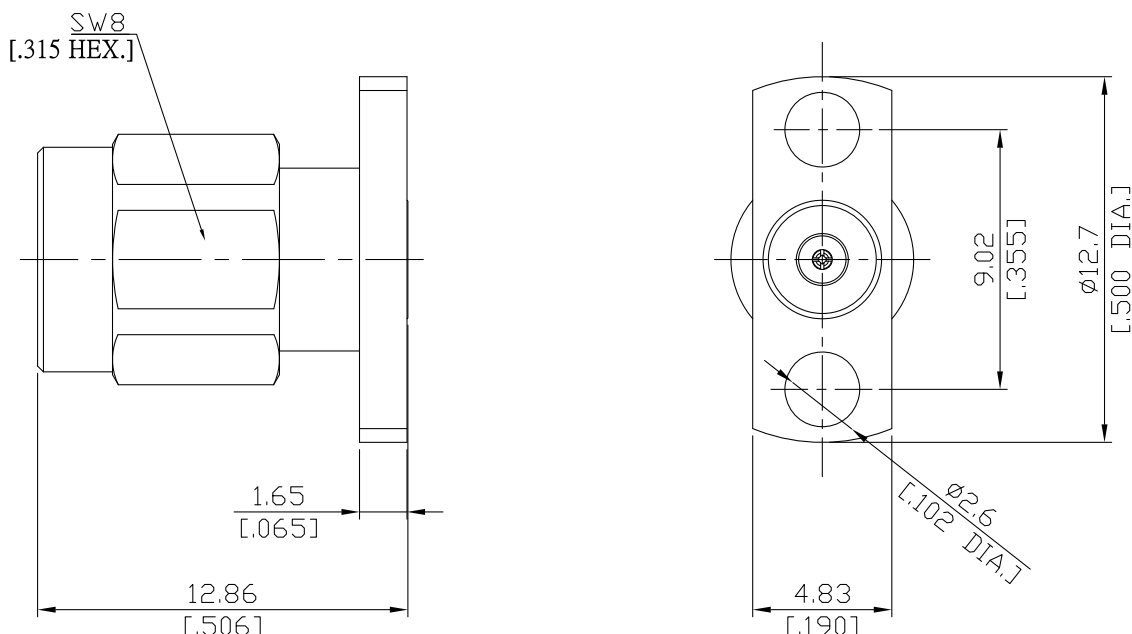


2.92mm Plug (male) Connector 2 Straight Field Replaceable  
9.02mm (.355 inch) Hole Spacing DC-40GHz VSWR1.15

**K1BT50-0020C / 9XX**



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

**Interface**

According to

IEC 61169-35

**Electrical Data**

Impedance

50 Ω

Frequency

DC to 40 GHz

VSWR (Return Loss)

DC to 27 GHz:

≤ 1.10 (≥ 26.44 dB)

27 GHz to 40 GHz:

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

≤ 0.3 dB

Insulation Resistance

≥ 5 GΩ

Center Contact Resistance

≤ 3.0 mΩ

Outer Contact Resistance

≤ 2.0 mΩ

Test Voltage

750 V rms

Working voltage

250 V rms

RF-leakage

≥ 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/PTFE         |                                                                                  |
| Gasket         | Silicone Rubber  |                                                                                  |
| Coupling nut   | Stainless Steel  | Passivated                                                                       |

2.92mm Plug (male) Connector 2 Straight Field Replaceable  
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# K1BT50-0020C / 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   | -65°C to +155°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. I |
| Moisture Resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

## Packing

Single or 100