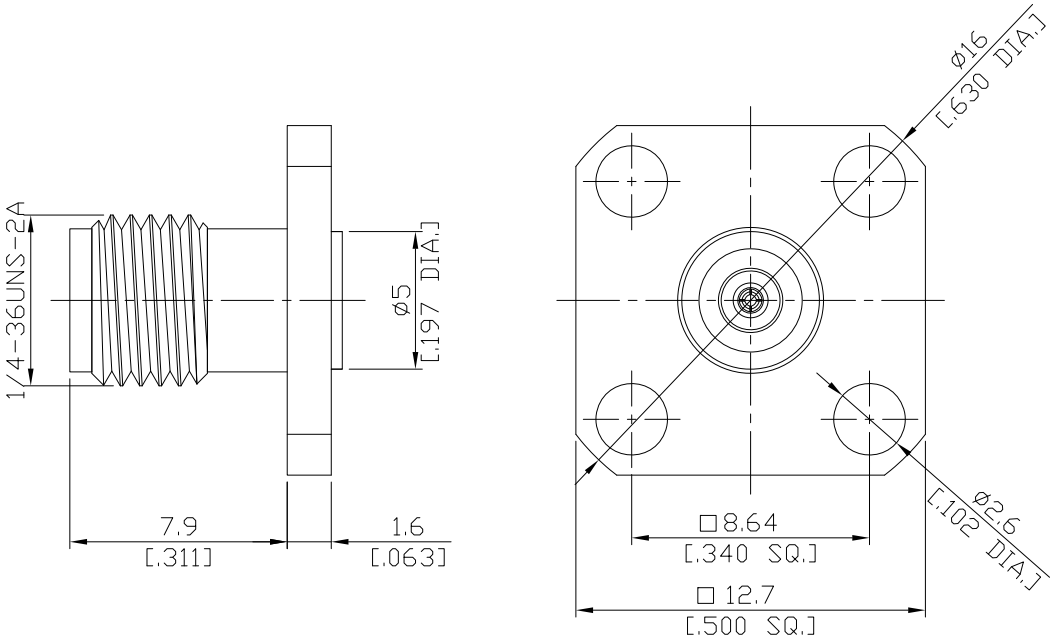
ROSNOL®
RF/Microwave Interconnect

# Technical Data Sheet

## SMA Jack (female) Connector 4 Straight Field Replaceable 8.64mm (.340 inch) Hole Spacing DC-18GHz VSWR 1.14

# SMA2BF50-0020A / 9X




All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

## Interface

| | |
|---|---|
| According to | IEC 60169-15; MIL-STD-348B/310 |

## Electrical Data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| VSWR (Return Loss) | ≤ 1.14 (≥ 23.69 dB) |
| Insertion Loss | ≤ 0.05 x √F (GHz) dB |
| Insulation Resistance | ≥ 5 GΩ |
| Center Contact Resistance | ≤ 3.0 mΩ |
| Outer Contact Resistance | ≤ 2.0 mΩ |
| Test Voltage | 1000 V rms |
| Working voltage | 480 V rms |
| Power handling | ≤ 200 W @ 2 GHz |
| 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 (without the zinc plated) |
| Insulator | PTFE | |
| End Gasket | EMI Shielding | |





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## Mechanical Data

| | |
|---|---|
| Coupling mechanisms | Screw-lock |
| Mating Cycles | ≥ 500 |
| Captivated Type | Mechanical |
| Center Contact Captivation: axial | ≥ 27 N |
| Coupling Test Torque | 1.70 Nm |
| Recommended Torque | 0.80 Nm to 1.1 Nm |

## Environmental Data

| | |
|---|---|
| Temperature Range | -65°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. I |
| Moisture Resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

## Packing

Single or 100





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