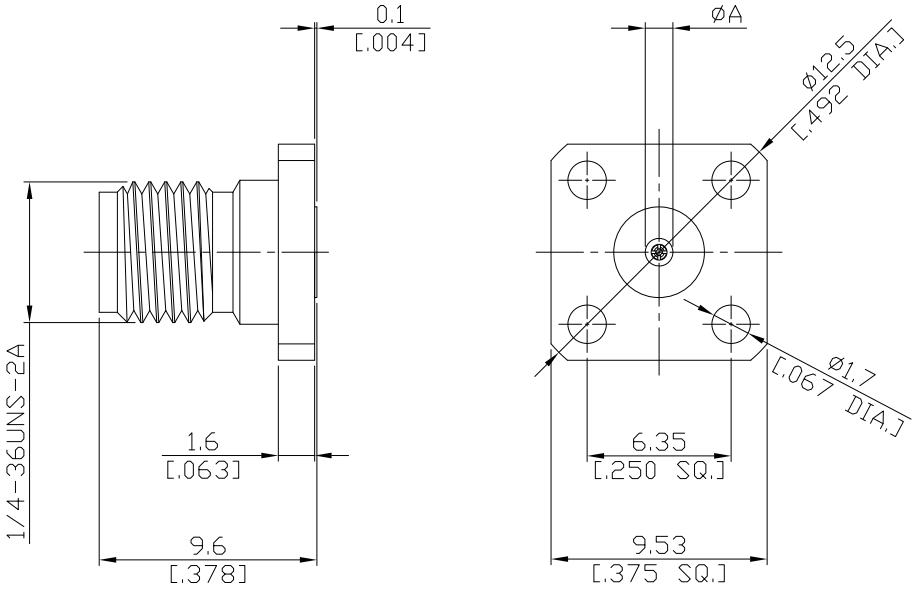
ROSNOL® RF/Microwave Interconnect

# Technical Data Sheet

## 2.92mm Jack (Female) Connector 4 Straight Field Replaceable 6.35mm (.250 inch) Hole Spacing DC-40GHz VSWR1.15

# K2BF50-0015B / 9X




| Model | Pin Size | Max. Pin Depth | Ø A |
|---|---|---|---|
| K2BF50-0009B/9X | 0.23mm [.009"] | 1.65mm [.065"] | 1.09mm [.043"] |
| K2BF50-0012B/9X | 0.30mm [.012"] | 1.65mm [.065"] | 1.22mm [.048"] |
| K2BF50-0015B/9X | 0.38mm [.015"] | 1.65mm [.065"] | 1.38mm [.054"] |
| K2BF50-0018B/9X | 0.46mm [.018"] | 1.65mm [.065"] | 1.80mm [.071"] |
| K2BF50-0020B/9X | 0.51mm [.020"] | 1.65mm [.065"] | 1.80mm [.071"] |

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 | PS | |





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# K2BF50-0015B / 9X

## 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





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