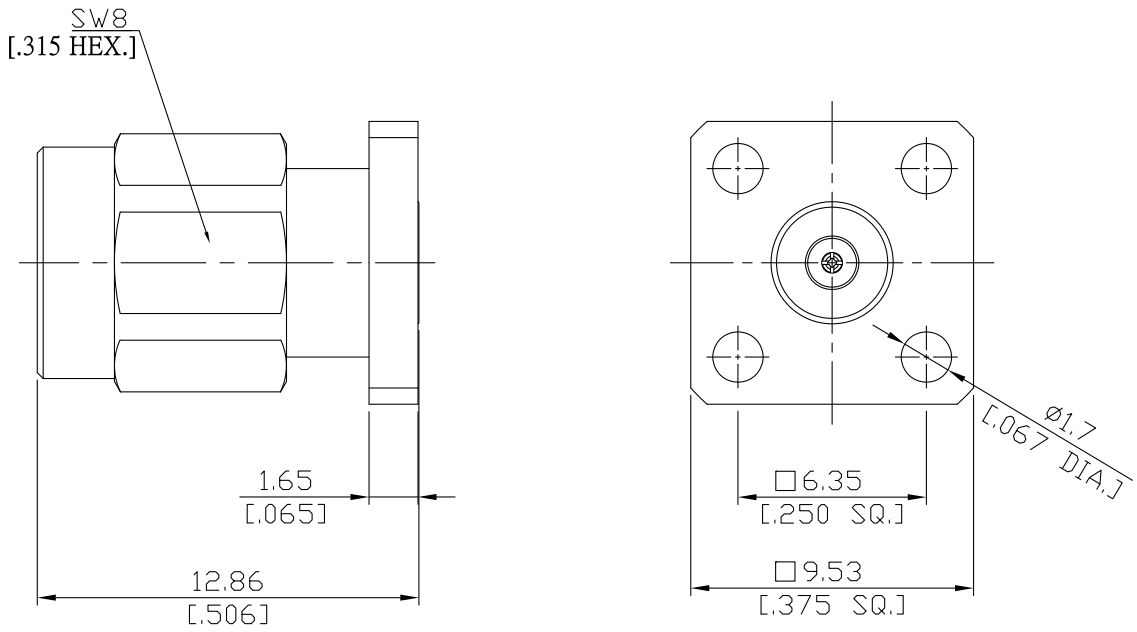
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

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

K1BF50-0020B / 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 (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PEI/PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated

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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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