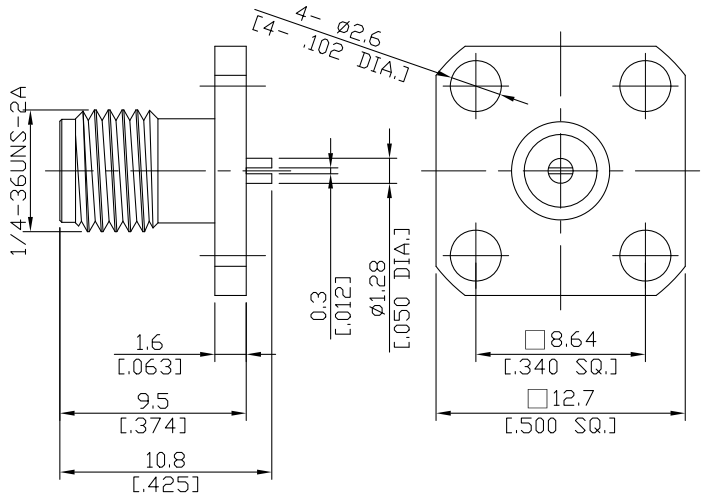
ROSNOL®
RF/Microwave Interconnect

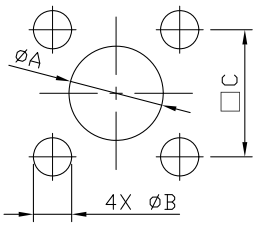
Technical Data Sheet

SMA Jack (Female) Connector Solder Attachment 4 Hole Flange Mount Pin Terminal, 8.64mm (.340 inch) Hole Spacing, DC–18GHz, 1.30

SMA2GFE50-1080A / 9Q



Mounting Dimension



	mm		inch	
	Max.	Min.	Max.	Min.
A	4.3	4.2	.169	.165
B	2.7	2.6	.106	.102
C	8.69	8.59	.342	.338

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

Interface

According to	IEC 60169-15, CECC22110, MIL-PRF-39012, MIL-STD-348B/310, EN 122110

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.30 (≥ 17.69 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 3 mΩ
Outer Contact Resistance	≤ 2 mΩ
Test Voltage	1000 V rms
Working Voltage (at sea level)	480 V rms
Power Handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz

-VSWR in practical applications depends on installation, PCB layout, and cavity design.-

Material and Plating

Piece Parts	Material	Plating
Centre Contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	

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.

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Mechanical Data	
Coupling Mechanisms	Screw-On
Mating Cycles	≥ 500
Centre Contact	Soldered
Terminal Type	Slotted
Captivated Type	Mechanical
Center Contact Captivation: axial	≥ 27 N
Coupling Test Torque	max. 1.7 Nm
Recommended Torque	0.8 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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