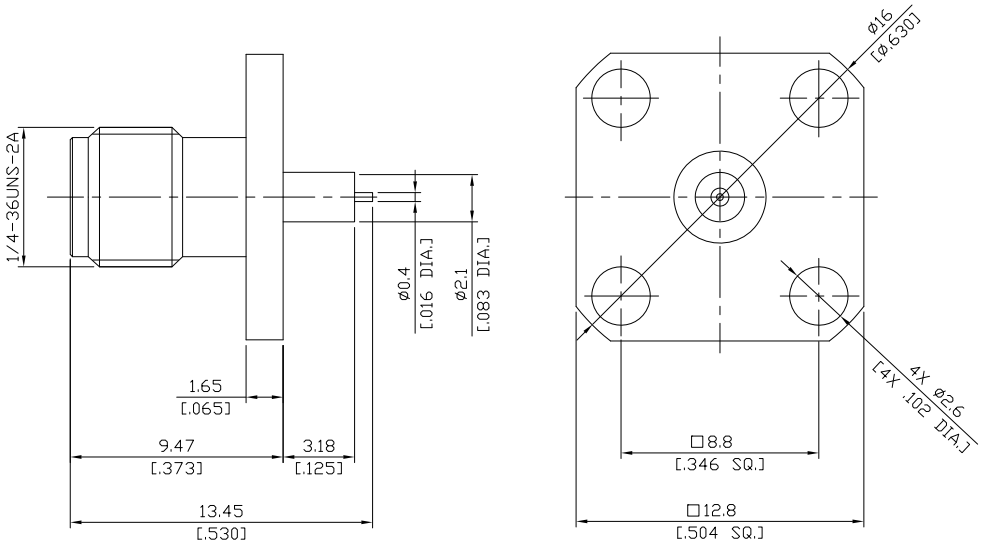
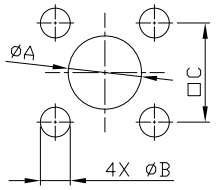
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

SMA Jack (Female) Panel Connector Solder Attachment 4 Hole Flange Mount Stub Terminal, 8.8mm [.346 inch] Hole Spacing DC-18GHz VSWR1.25

SMA2GFA50-1345A / 91





	mm		inch	
	Max.	Min.	Max.	Min.
A	2.3	2.2	0.09	0.08
B	2.8	2.7	0.11	0.10
C	8.85	8.75	0.35	0.34

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

Interface

According to	IEC 61169-15	MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 18 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 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	480 V rms
Power handling	≤ 200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Insulator	PTFE	

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Mechanical Data	
Coupling mechanisms	Screw-lock
Mating cycles	≥ 500
Center contact captivation: axial	≥ 27 N
radial	≥ 3 Ncm
Coupling test torque	≤ 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, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant
Packing	
	Singleor 100

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