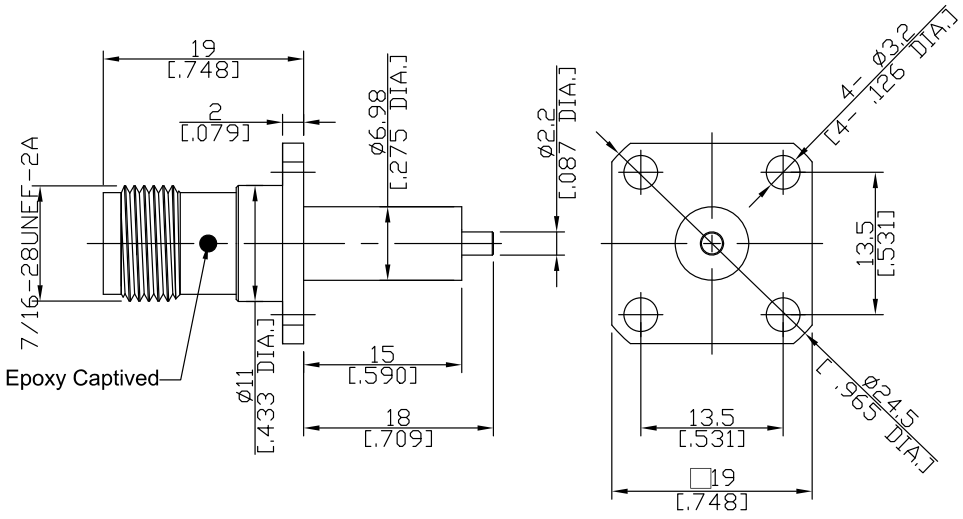
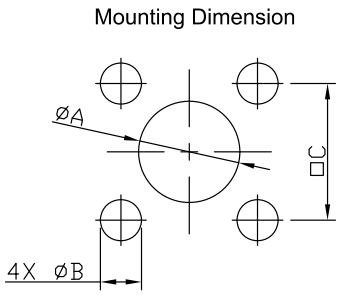
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

TNC Jack (female) Connector Solder Attachment 4 Hole Flange Mount Stub Terminal, 13.5mm (.531 inch) Hole Spacing DC-4GHz VSWR1.25

TNC2GFA50-3700C-EC / 9X





	mm		inch	
	Max.	Min.	Max.	Min.
A	11.3	11.2	.445	.441
B	3.30	3.20	.130	.126
C	13.55	13.45	.533	.530

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

Interface

According to	IEC 61169-17; CECC 22200; MIL-PRF-39012; MIL-STD-348B/313; DIN EN 122200

Electrical Data

Impedance	50 Ω
Frequency	DC to 4 GHz
VSWR (Return Loss)	≤ 1.25 (≥ 19.08 dB)
Insertion Loss	≤ 0.05 dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1 mΩ
Working Voltage (at sea level)	500 V rms
Test voltage	1500 V rms
Power handling	≤ 300 W @ 2 GHz

-VSWR in application depends decisive on PCB layout or cavity design-

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered
Terminal Type	Stub
Captivated Type	Epoxy Captivation
Coupling Test Torque	≤ 1.7 Nm
Center contact captivation: axial	≥ 15 N
Recommended Torque	0.46 Nm to 0.69 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.B
Shock	MIL-STD-202, Meth. 213, Cond. G
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

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