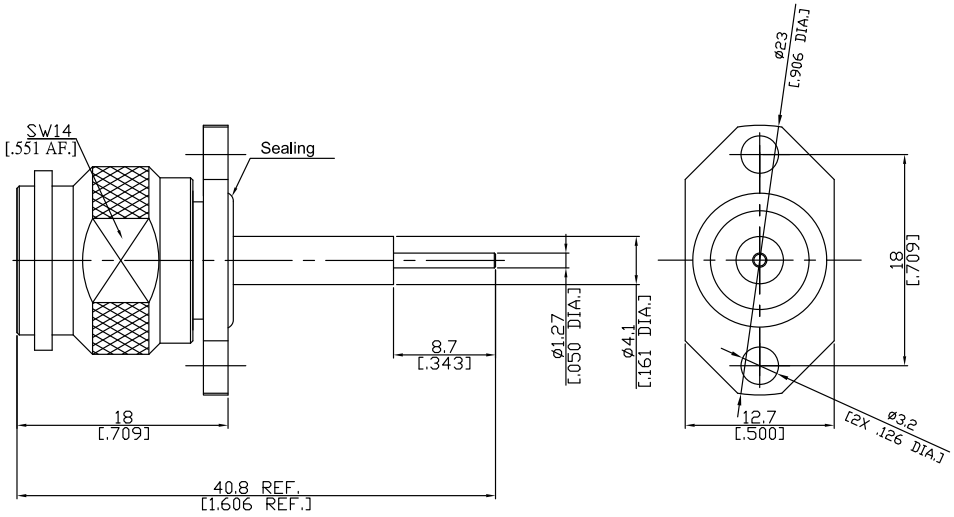
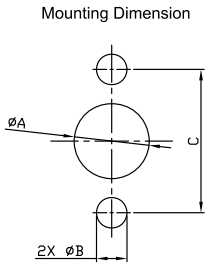
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

TNC Jack (female) Connector Solder Attachment 2 Hole Flange Mount Stub Terminal, 18mm (.709 inch) Hole Spacing DC-4GHz VSWR1.2

TNC1GTA50-4080A / H33





	mm		inch	
	Max.	Min.	Max.	Min.
A	4.3	4.2	.169	.165
B	3.4	3.3	.133	.129
C	18.1	17.9	.713	.705

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

Interface

According to: IEC 61169-17;CECC 22 200;MIL-PRF-39012;TNC-Interface MIL-STD-348/313

Electrical Data

Impedance	50 Ω
Frequency	DC to 4 GHz
VSWR (Return Loss)	≤ 1.2(≥ 20.83dB)
Insertion Loss	≤ 0.05 dB, DC to 4 GHz
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	80 W @ 2 GHz

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

Material And Plating

Piece Parts	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 100 μinch)
Body	Brass	Nickel
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Brass	Nickel

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered
Terminal Type	Stub
Captivated Type	Mechanical
Coupling Test Torque	1.7 Nm max.
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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