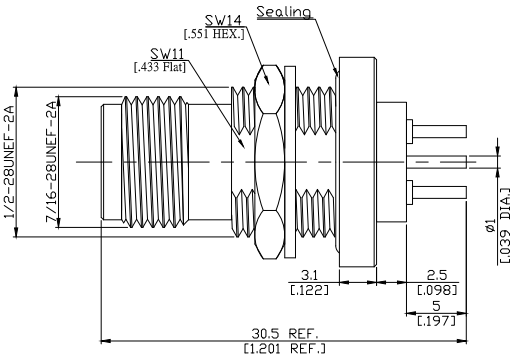
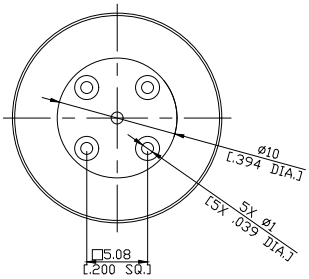
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

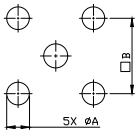
TNC Jack (Female) PCB Through Holes Straight For Bulkhead Connector Solder Attachment Coaxial End DC-6GHz VSWR≤1.50

TNC2IA50-3050A / 93



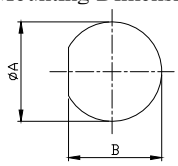


Mounting Dimensions



	mm		inch	
	Max.	Min.	Max.	Min.
A	12	1.1	.047	.043
B	5.13	5.03	.201	.198

Mounting Dimensions



	mm		inch	
	Max.	Min.	Max.	Min.
A	11.2	11.1	.441	.437
B	12.7	12.6	.500	.496

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

Interface

According to	IEC 60169-17 ,MIL-C-39012	MIL-STD-348B/313-1 ,MIL-STD-348B/313-2

Electrical Data

Impedance	50 Ω
Frequency	DC to 6 GHz
VSWR (Return Loss)	≤ 1.50 (≥ 14 dB)
Insertion Loss	≤ 0.05 dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 1.5 mΩ
Outer Contact Resistance	≤ 1 mΩ
Test Voltage	1500 V rms
Working Voltage (at sea level)	500 V rms
Power Handling (at 20 °C, sea level, VSWR 1.0)	≤ 80 W @ 2 GHz

Material And Plating

Connector parts	Material	Plating
Centre contact	Phosphor Bronze	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Brass	Nickel
Insulator	PTFE	

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Centre Contact	Soldered
Center Contact Captivation: axial	≥ 15 N
Board mounting type	Through Holes
Coupling Test Torque	1.7 Nm max.
Recommended Torque	0.46 Nm to 0.69 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.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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