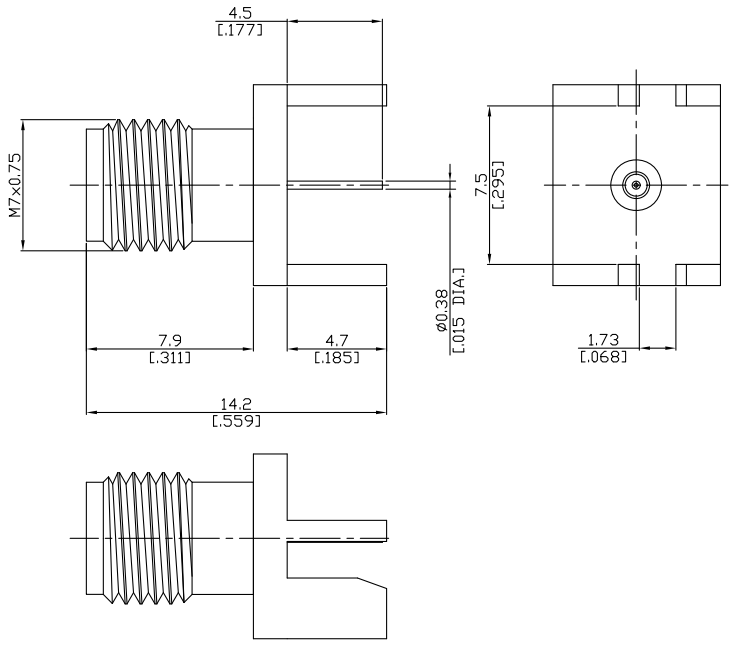
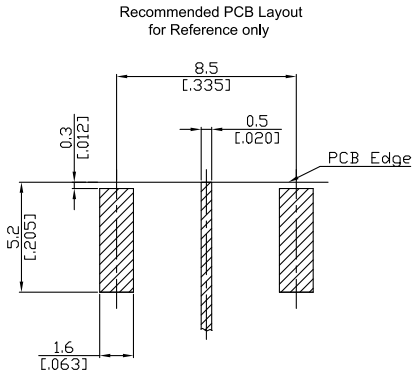
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

2.4mm Jack (female) Connector PCB End Launch Straight DC-50GHz

Q2H4A50-0173A / 91





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

Interface

According to	IEC 61169-40, IEEE Std 287-2007

Electrical Data

Impedance	50 Ω
Frequency	DC to 50 GHz
VSWR (Return Loss)	≤ 1.67 (≥ 12.01 dB)
Insertion Loss	≤ 0.1 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Test Voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 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	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PEI	

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Mechanical Data	
Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Center Contact Captivation: axial	≥ 20 N
Coupling Test Torque	1.65 Nm
Recommended Torque	0.80 Nm to 1.10 Nm
Environmental Data	
Temperature Range	-40°C to +85°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture Resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant
Packing	
	Single or 100

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