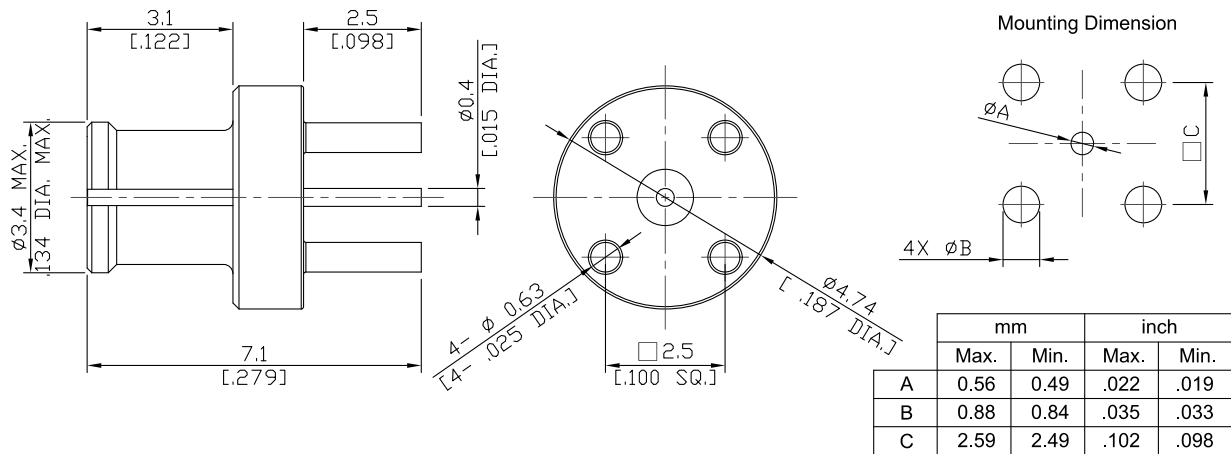


SMP Jack (Female) Connector Solder Attachment Thru Hole PCB,
DC-18 GHz, VSWR 1.25

SMP2I50-0710A / 99



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

According to

MIL-PRF-31031; MIL-STD-348B/326; IEC 61169-44

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	≤ 6.0 mΩ
Outer Contact Resistance	≤ 2.0 mΩ
Test Voltage	500 V rms
Working Voltage (at sea level)	≤ 335 V rms

-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	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Insulator	PTFE	

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Mechanical Data

Coupling mechanisms	Snap-on
Mating Cycles	
if mating part is Smooth bore, Catcher 's Mitt	≥ 1000
if mating part is Limited detent	≥ 500
if mating part is Full detent	≥ 100
Centre Contact	Soldered
Captivated Type	Mechanical
Board mounting Type	Through Holes
Center Contact Captivation	≥ 7 N
Disengagement force	
- Smooth bore, Catcher 's Mitt	≤ 9 N
- Limited detent	≤ 45 N
- Full detent	≤ 68 N
Engagement force	
- Smooth bore, Catcher 's Mitt	≥ 2.2 N
- Limited detent	≥ 9 N
- Full detent	≥ 22 N

Environmental Data

Temperature Range	-65°C to +165°C
Thermal shock	MIL-STD-202, Meth. 107, Cond. B
Vibration	MIL-STD-202, Meth. 204, Cond. B
Shock	MIL-STD-202, Meth. 213, Cond. A
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100