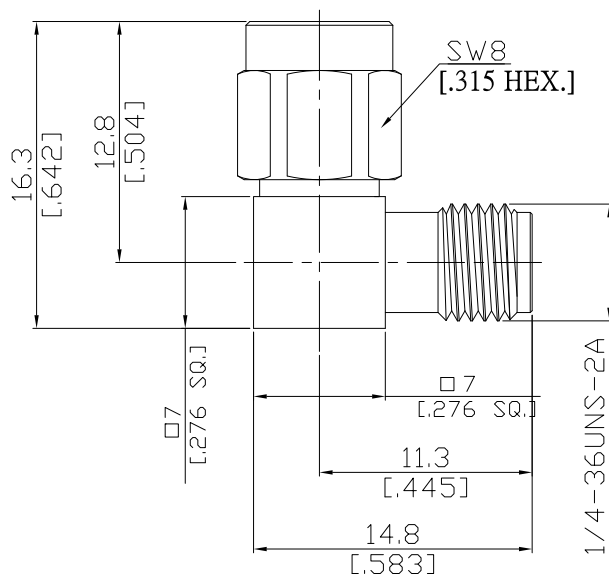


Precision SMA Plug (Male) to Precision SMA Jack (Female) Right Angle Adapter
DC-27 GHz, VSWR ≤ 1.15

ADL-PCA1PCA25C_1.15 / 9XX-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

according to

IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω
Frequency	DC to 27 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)
Insertion Loss	≤ 0.05 × √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Insulation resistance	≤ 3 mΩ
Center contact resistance	≤ 2 mΩ
Outer contact resistance	1000 V rms
Test voltage	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2 GHz
RF-leakage	≥ 100 dB up to 1 GHz

Material And Plating

Piece Parts (Precision SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (Precision SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Stainless Steel	Passivated
Insulator	PTFE	

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Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	≥ 500
Coupling nut retention	≥ 270 N
Center contact captivation: axial	≥ 27 N
radial	≥ 3 Ncm
Coupling test torque	≤ 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

Environmental Data

Temperature Range	-65°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100

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DC-27 GHz, VSWR ≤ 1.15

ADL-PCA1PCA25C_1.15 / 9XX-9X

Frequency	DC-27 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.13 dB)
Insertion Loss	≤ 0.05 × √F (GHz) dB
Vector Network Analyzer (VNA)	Keysight N5235A
Calibration Kit	Keysight 85052D
Test Method	Port 1: Precision SMA Jack (Female)
	Port 2: Precision SMA Plug (Male)
	Port 1 + DUT + Port 2

