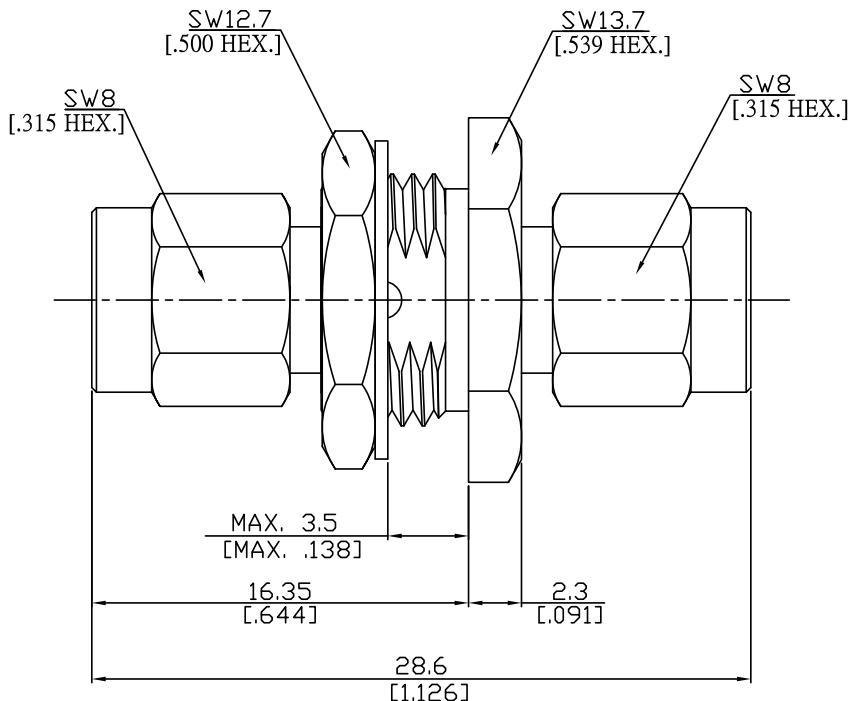


Precision SMA jack (female) / Precision SMA jack (female)
DC-27 GHz, VSWR ≤ 1.15

AD-PCA1PCA15A-BH / 1XX-1XX



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

according to

IEC 61169-8; MIL-STD-348B/301

Electrical Data

Impedance

50 Ω

Frequency

DC to 27 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

≤ $0.05 \times \sqrt{F}$ (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3 mΩ

Outer contact resistance

≤ 2 mΩ

Test voltage

1000 V rms

Working 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

Precision SMA jack (female) / Precision SMA jack (female)
DC-27 GHz, VSWR ≤ 1.15

AD-PCA1PCA15A-BH / 1XX-1XX

Material And Plating

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

Mechanical Data

Coupling mechanisms	Screw-lock
Mating cycles	≥ 500
Coupling nut retention	$\geq 270 \text{ N}$
Center contact captivation: axial	$\geq 27 \text{ N}$
radial	$\geq 3 \text{ Ncm}$
Coupling test torque	max. 1.7 Nm
Recommended torque	0.8 Nm to 1.1 Nm

Environmental Data

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. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Single or 100