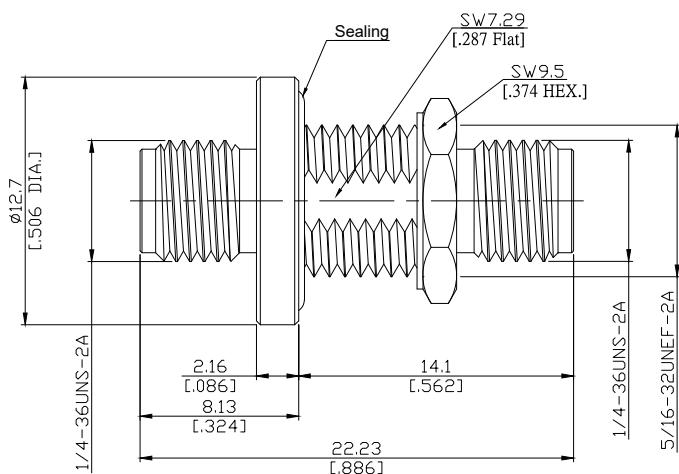
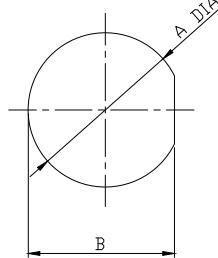


Precision SMA jack (female) / Precision SMA jack (female)  
DC-27 GHz, VSWR  $\leq$  1.15

# AD-PCA2PCA25C-BHS / 91-91



## MOUNTING DIMENSIONS



	mm	inch		
	MAX.	MIN.	MAX.	MIN.
A	7.9	7.85	.311	.309
B	7.4	7.35	.291	.289

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  $\Omega$

Frequency

DC to 27 GHz

VSWR (Return Loss)

$\leq$  1.15 ( $\geq$  23.13 dB)

Insertion Loss

$\leq$  0.05  $\times \sqrt{F}$  (GHz) dB

Insulation resistance

$\geq$  5 G $\Omega$

Center contact resistance

$\leq$  3 m $\Omega$

Outer contact resistance

$\leq$  2 m $\Omega$

Test voltage

1000 V rms

Working voltage

480 V rms

Power handling (at 20 °C, sea level, VSWR 1.0)

$\leq$  200 W @ 2 GHz

RF-leakage

$\geq$  100 dB up to 1 GHz

### Material And Plating

Piece Parts (Precision SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Insulator	PTFE	
Fastening nut	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Washer	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Piece Parts (Precision SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Body	Brass	Gold plating, 3 $\mu$ inch (Non-magnetic nickel-phosphorus underplating, 80 $\mu$ inch)
Insulator	PTFE	

The facts and figures herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Rev.:-

Date:

JUL/16/2021

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N-CAGE Code: SFKK0 / ISO9001 Certified

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Precision SMA jack (female) / Precision SMA jack (female)  
DC-27 GHz, VSWR  $\leq$  1.15

AD-PCA2PCA25C-BHS / 91-91

## Mechanical Data

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

## 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