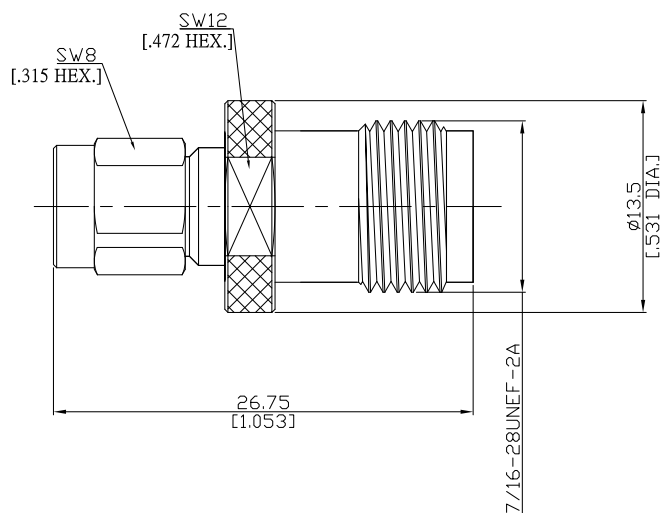


SMA plug (male) / Precision TNC jack (female)
Straight adaptor DC-18GHz VSWR 1.20

AD-A1PCT25B / 9XX-9X



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to

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

Precision TNC according to

IEC 60169-26; MIL-STD-348A/313

Electrical Data

Impedance

50 Ω

Frequency

DC to 18 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.8 dB)

Insertion Loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 5 GΩ

Center contact resistance

≤ 3.0 mΩ, SMA side;

≤ 1.5 mΩ, Precision TNC side

Outer contact resistance

≤ 2.0 mΩ, SMA side;

≤ 1.0 mΩ, Precision TNC side

Test voltage

1000 V rms

Working voltage

480 V rms

RF-leakage

≥ 90 dB up to 1 GHz

Dielectric Withstanding Voltage

1000 VRMS

RF High Potential Withstanding Voltage:

670 VRMS

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	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
Piece Parts (Precision TNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
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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Mechanical Data

Coupling mechanisms	SMA side	Precision TNC side
Mating cycles	Screw-lock	Screw-lock
Center contact captivation: axial	min. 500	min. 500
Coupling test torque	≥ 27 N	≥ 27 N
Recommended torque	max. 1.7 Nm	max. 1.7 Nm
	0.80 Nm to 1.10 Nm	0.46 Nm to 0.69 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, Meth. 106
RoHS	compliant

Packing

Single or 100