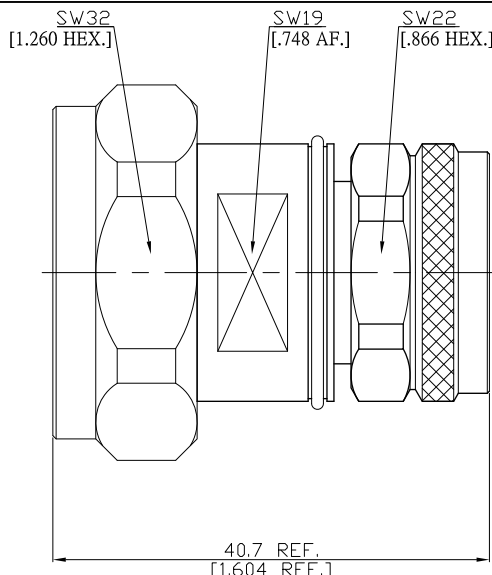


7-16 plug (male) / 4.3-10 plug (male)
Low PIM Adapter DC-6GHz VSWR1.15 PIM-160dBc

AD-D1431015A / 144-144



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

7/16 according to

IEC 61169-4

4.3/10 according to

IEC 61169-54

Electrical Data

Impedance

50 Ω

Frequency

DC to 6 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.13 dB)

Insertion Loss

≤ 0.1 x √F (GHz) dB

PIM level

≤ -160 dBc

Insulation resistance

≤ 5 GΩ

Center contact resistance

≤ 0.4 mΩ, 7-16 side

≤ 1.0 mΩ, 4.3-10 side

Outer contact resistance

≤ 1.5 mΩ, 7-16 side

≤ 1.0 mΩ, 4.3-10 side

Test voltage

2500 V rms

Working voltage

500 V rms

RF-leakage

≥ 110 dB @ DC to 6 GHz

Power handling (at 90 °C, altitude 3000m)

500 W @ 2.0 GHz

Material And Plating

Piece Parts (7-16)	Material	Plating
Centre contact	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Coupling nut	Brass	Copper-Tin-Zinc Alloy
Piece Parts (4.3-10)	Material	Plating
Centre contact	Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 pinch)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Coupling nut	Brass	Copper-Tin-Zinc Alloy

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Mechanical Data

	7-16 side	4.3-10 side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	≥ 500 N	≥ 100
Center contact captivation: axial	≥ 200 N	≥ 30 N
radial	≥ 2 Ncm	> 5 Ncm
Center contact retention force	N/A	1.5 - 20 N
Recommended torque	25 to 30 Nm	5 Nm

Environmental Data

Temperature range	-55 °C to +90 °C operating temperature
Thermal shock	IEC 60169-1, Sub-clause 16.4
Corrosion resistance	ISO 21207 method B
Vibration	IEC 61169-1 9.3.3 and IEC 60068-2-64
Shock	IEC 61169-1 9.3.14
Degree of protection (mated pair)	IEC 60529, IP68 1h / 25m
RoHS	compliant

Packing

Single or 100