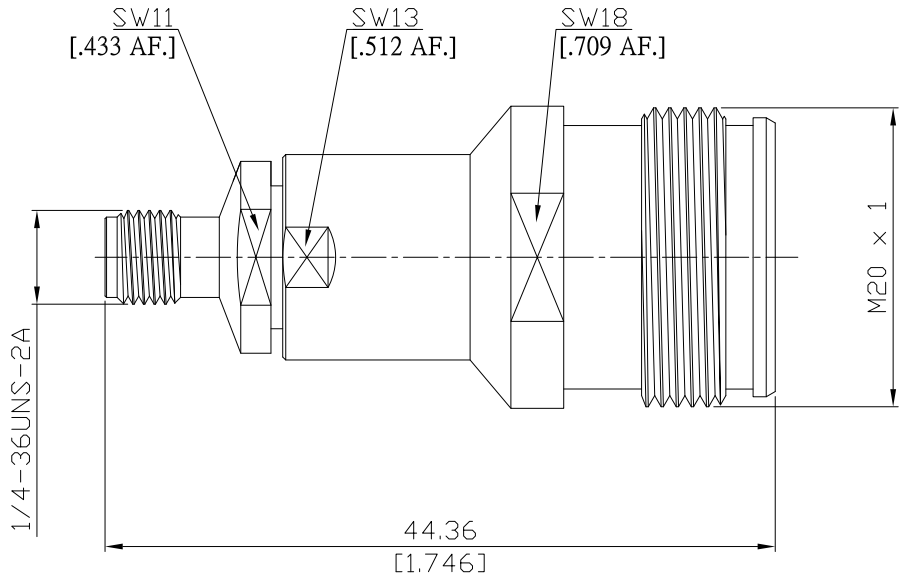
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

SMA jack (female) / 4.3-10 jack (female)
Straight Adaptor DC-12 GHz VSWR 1.15

AD-A2431025A / 94-94



All dimensions are in mm [inch]
Tolerances according to DIN ISO 2768-mH

Interface

4.3-10 side according to	IEC 61169-54
SMA side according to	IEC 60169-15; MIL-STD-348B/310

Electrical Data

Impedance	50 Ω	
Frequency	DC to 12 GHz	
VSWR (Return Loss)	≤ 1.15 (≥ 23 dB)	
Insertion loss	≤ 0.04 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.0 mΩ, 4.3-10 side	≤ 3 mΩ, SMA side
Outer contact resistance	≤ 1.0 mΩ, 4.3-10 side	≤ 2 mΩ, SMA side
Test voltage	1000 V rms	
Working voltage	480 V rms	
RF-leakage	≥ 100 dB @ DC to 1 GHz	
Power handling	≤ 200 W @ 2 GHz	

Material And Plating

Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	
Piece Parts (4.3-10)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Brass	Copper-Tin-Zinc Alloy
Insulator	PTFE	

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Mechanical Data

	4.3-10 side	SMA sdie
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	≥ 100	min. 500
Center contact captivation: axial	≥ 30 N	≥ 20 N
radial	> 5 Ncm	≥ 1 Ncm
Center contact retention force	1.5 - 20 N	
Recommended torque	5 Nm	0.8 – 1.1 Nm

Environmental Data

Temperature range	-65°C to +165°C
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

Singleor 100

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