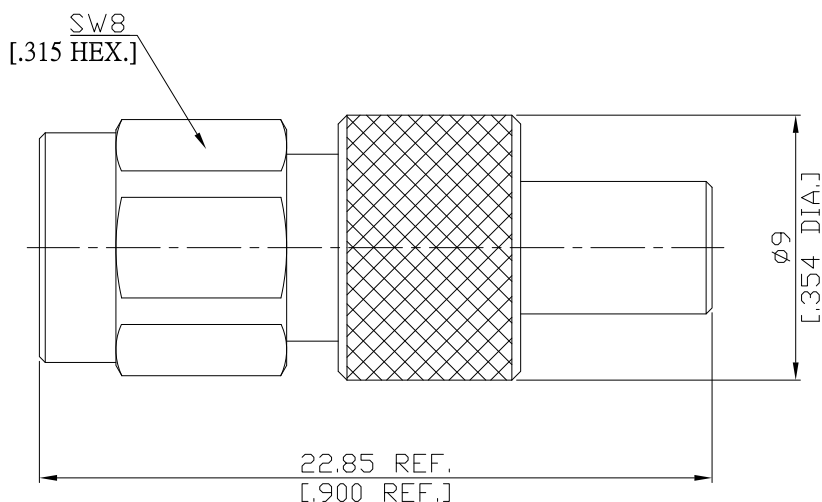


SMA plug (male) / MCX jack (female)
Straight adaptor DC- 6 GHz VSWR ≤ 1.20

AD-A1M25A / 911-91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

SMA according to

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

MCX according to

IEC 60169-36

Electrical Data

Impedance

50 Ω

Frequency

DC to 6 GHz

VSWR (Return Loss)

≤ 1.20 (≥ 20.8 dB)

Insertion loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 1 GΩ

Center contact resistance

≤ 3 mΩ, SMA side

≤ 5.0 mΩ, MCX side;

Outer contact resistance

≤ 2 mΩ, SMA side

≤ 2.5 mΩ, MCX side;

Test voltage

750 V rms

Working voltage

335 V rms

Contact Current

1.5A DC max.

Material And Plating

Piece Parts (SMA)		Material	Plating
Centre contact		Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body		Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Insulator		PTFE	
Gasket		Silicone Rubber	
Coupling nut		Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Piece Parts (MCX)		Material	Plating
Centre contact		Beryllium Copper	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body		Brass	Gold plating, 3 pinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Insulator		PTFE	

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Mechanical Data

	SMA side	MCX side
Coupling mechanisms	Screw-lock	Snap-lock
Mating cycles	≥ 500	≥ 500
Center contact captivation: axial	≥ 27 N	≥ 27 N
Engagement force	N/A	≤ 25 N
Disengagement force	N/A	8 N min. to 20 N max.
Coupling test torque	max. 1.7 Nm	N/A
Recommended torque	0.8 Nm to 1.1 Nm	N/A

Environmental Data

Temperature range	-55°C to +155°C
Thermal shock	CECC 22 220, Chapter 4.6.7
Vibration	CECC 22 220, Chapter 4.6.3
Corrosion	CECC 22 220, Chapter 4.6.10
Moisture resistance	CECC 22 220, Chapter 4.6.6
RoHS	compliant

Packing

Single or 100