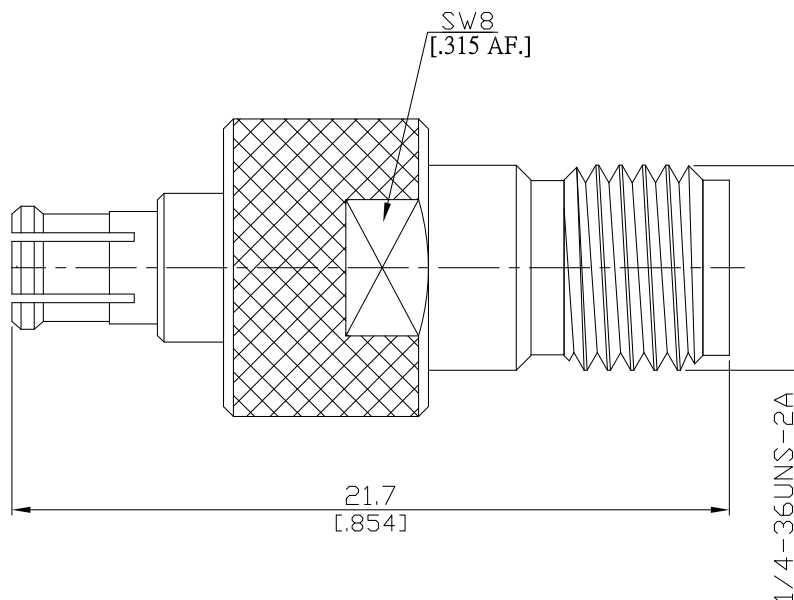


MCX plug (male) / SMA jack (female)
Straight Adaptor DC-6 GHz VSWR 1.15

AD-M1A25A / 99-91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

Interface

MCX according to

IEC 60169-36

SMA according to

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

Electrical Data

Impedance

50 Ω

Frequency

DC to 6 GHz

VSWR (Return Loss)

≤ 1.15 (≥ 23.1 dB)

Insertion loss

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

Insulation resistance

≥ 1 G Ω

Center contact resistance

≤ 5.0 m Ω , MCX side;

≤ 3 m Ω , SMA side

Outer contact resistance

≤ 2.5 m Ω , MCX side;

≤ 2 m Ω , SMA side

Test voltage

750 V rms

Working voltage

335 V rms

Contact Current

1.5A DC max.

Material And Plating

Piece Parts (MCX)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Beryllium Copper	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Insulator	PTFE	
Piece Parts (SMA)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Body	Brass	Gold plating, 3 μ inch (Non-magnetic nickel-phosphorus underplating, 80 μ inch)
Insulator	PTFE	

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Mechanical Data

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

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