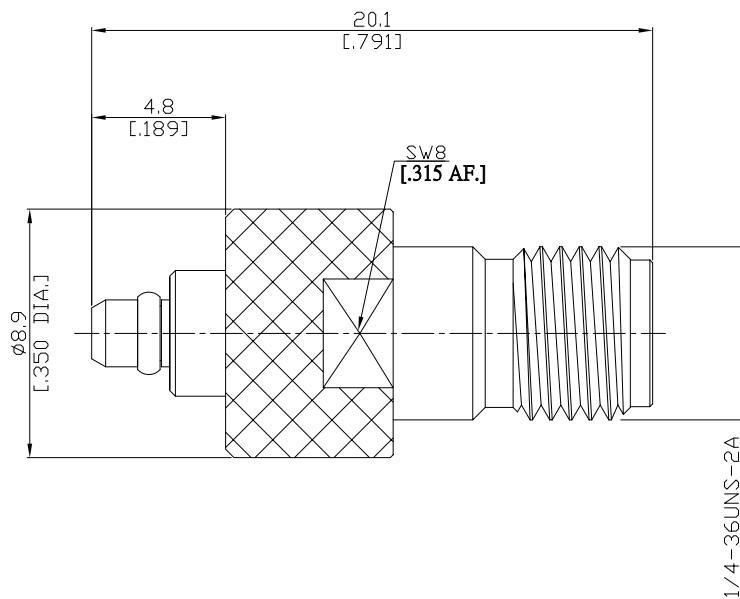


MMCX plug (male) / SMA jack (female)  
Straight adaptor DC- 6 GHz VSWR ≤ 1.20

## AD-MX1A25A / 91-91



All dimensions are in mm [inch]

Tolerances according to DIN ISO 2768-mH

## Interface

MMCX 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)

≤ 1.20 (≥ 20.8 dB)

Insertion loss

≤ 0.05 x √F (GHz) dB

Insulation resistance

≥ 1 GΩ

Center contact resistance

≤ 5.0 mΩ, MMCX side;

≤ 3 mΩ, SMA side

Outer contact resistance

≤ 2.5 mΩ, MMCX side;

≤ 2 mΩ, SMA side

Test voltage

750 V rms

Working voltage

335 V rms

Contact Current

1.5A DC max.

## Material And Plating

## Piece Parts (MMCX)

## Material

## Plating

Centre contact

Beryllium Copper

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Body

Brass

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Insulator

PTFE

## Piece Parts (SMA)

## Material

## Plating

Centre contact

Beryllium Copper

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Body

Brass

Gold plating, 3 µinch

(Non-magnetic nickel-phosphorus underplating, 80 µinch)

Insulator

PTFE

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

## AD-MX1A25A / 91-91

## Mechanical Data

	MMCX 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