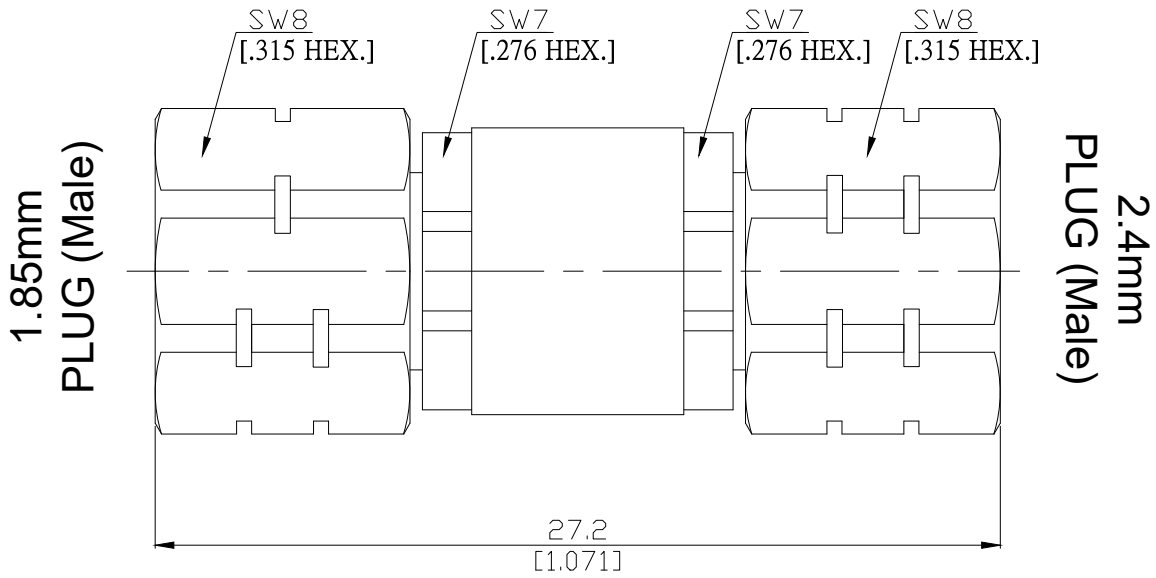
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

1.85mm plug (male) / 2.4mm plug (male) Straight Adaptor DC-50 GHz, VSWR ≤ 1.15

AD-V1Q15A / 9XX-9XX



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

Interface

1.85mm according to	IEC 61169-32, IEEE Std 287
2.4mm according to	IEC 61169-40, IEEE Std 287

Electrical Data

Impedance	50 Ω
Frequency	DC to 50 GHz
VSWR (Return Loss)	≤ 1.15 (≥ 23.1 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation resistance	≥ 5 GΩ
Test voltage	500 V rms
Working voltage	150 V rms
RF-leakage	≥ 100 dB up to 1 GHz

Material And Plating

Piece Parts (1.85mm)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PEI	
Coupling nut	Stainless Steel	Passivated
Piece Parts (2.4mm)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 µinch (Non-magnetic nickel-phosphorus underplating, 80 µinch)
Body	Stainless Steel	Passivated
Insulator	PEI	
Coupling nut	Stainless Steel	Passivated

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Mechanical Data

	1.85mm side	2.4mm side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	≥ 500	≥ 500
Center contact captivation	≥ 20 N	≥ 20 N
Coupling test torque	1.65 Nm	1.65 Nm
Recommended torque	0.80 Nm to 1.10 Nm	0.9 Nm

Environmental Data

Temperature Range	-55°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106
RoHS	compliant

Packing

Singleor 100

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