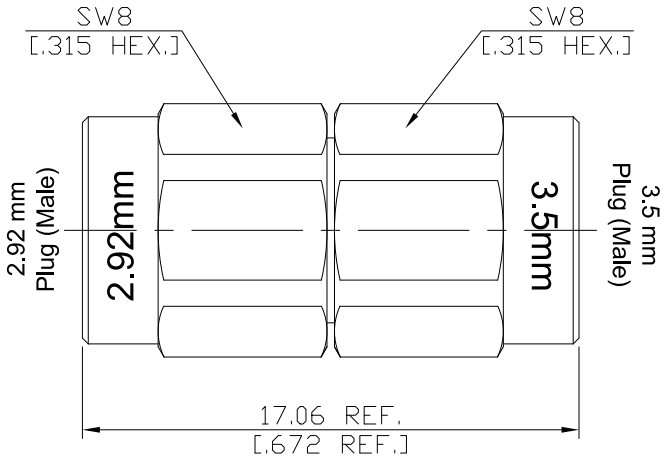
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

2.92mm Plug (Male) / 3.5mm Plug (Male) Adapter
DC-34.5 GHz VSWR 1.2

AD-K1PC15A / 9XX-9XX



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

Interface

2.92mm According to	IEC 61169-35; IEEE Std 287
Mechanically compatible with	3.5mm, SMA
3.5mm According to	IEC 60169-23; IEEE Std 287
Mechanically compatible with	2.92mm, SMA

Electrical Data

Impedance	50 Ω
Frequency	DC to 34.5 GHz
VSWR (Return Loss)	≤ 1.2 (≥ 20.83 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Center Contact Resistance	≤ 3 mΩ
Outer Contact Resistance	≤ 2 mΩ
Insulation resistance	≥ 5 GΩ
Test Voltage (at sea level)	750 V rms
Working voltage (at sea level)	250 V rms
RF-leakage	≥ 100 dB up to 1 GHz
Power Handling	22W

Material And Plating

Piece Parts (2.92mm)	Material	Plating
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PEI	
Coupling nut	Stainless Steel	Passivated
Gasket	Silicone	
Piece Parts (3.5mm)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating (Non-magnetic nickel-phosphorus underplating)
Body	Stainless Steel	Passivated
Insulator	PEI	
Stainless Steel	Stainless Steel	Passivated
Gasket	Silicone	

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Mechanical Data

	2.92mm side	3.5mm side
Coupling mechanisms	Screw-lock	Screw-lock
Mating Cycles	≥ 500	≥ 500
Center contact captivation	≥ 20 N	≥ 20 N
Coupling test torque	1.70 Nm	1.70 Nm
Recommended Torque	0.80 Nm to 1.10 Nm	0.80 Nm to 1.10 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

Single or 100

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