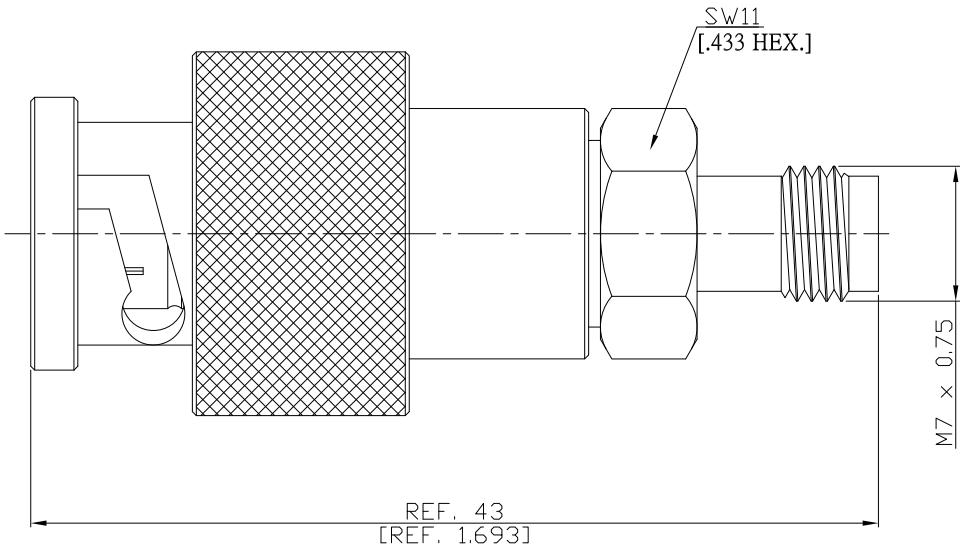
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

Precision BNC Plug (Male) to 1.85mm Plug (Male) Straight Adaptor DC-18 GHz VSWR ≤ 1.20

AD-PCB1V15A / 9XX-9XX



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

Interface

Precision BNC according to	N/A
1.85mm according to	IEEE STD 287

Electrical Data

Impedance	50 Ω	
Frequency	DC to 18 GHz	
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)	
Insertion Loss	≤ 0.05 x √F (GHz) dB	
Insulation resistance	≥ 5 GΩ	
Center contact resistance	≤ 1.5 mΩ, Precision BNC side;	≤ 4.0 mΩ, 1.85mm side
Outer contact resistance	≤ 1 mΩ, Precision BNC side;	≤ 2.5 mΩ, 1.85mm side

Material And Plating

Piece Parts (Precision BNC)	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Stainless Steel	Passivated
Insulator	PS	
Gasket	Silicone Rubber	
Coupling nut	Stainless Steel	Passivated
Piece Parts (1.85mm)	**Material**	**Plating**
Centre contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinc)
Body	Stainless Steel	Passivated
Insulator	PS	
Coupling nut	Stainless Steel	Passivated

Rosnol RF/Microwave Technology Co., Ltd.
www.rosnol.com; info@rosnol.com
Phone: +886-3-463-5095 / Fax: +886-3-463-5952
N-CAGE Code: SFKK0 / ISO9001 Certified

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Mechanical Data

	Precision BNC side	1.85mm side
Coupling mechanisms	Screw-lock	Screw-lock
Mating cycles	min. 500	min. 500
Center contact captivation: axial	≥ 15 N	≥ 20 N
Coupling test torque	N/A	1.65 Nm
Recommended torque	N/A	0.80 Nm to 1.10 Nm

Environmental Data

Temperature Range	-60°C to +100°C
RoHS	compliant

Packing

Singleor 100

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