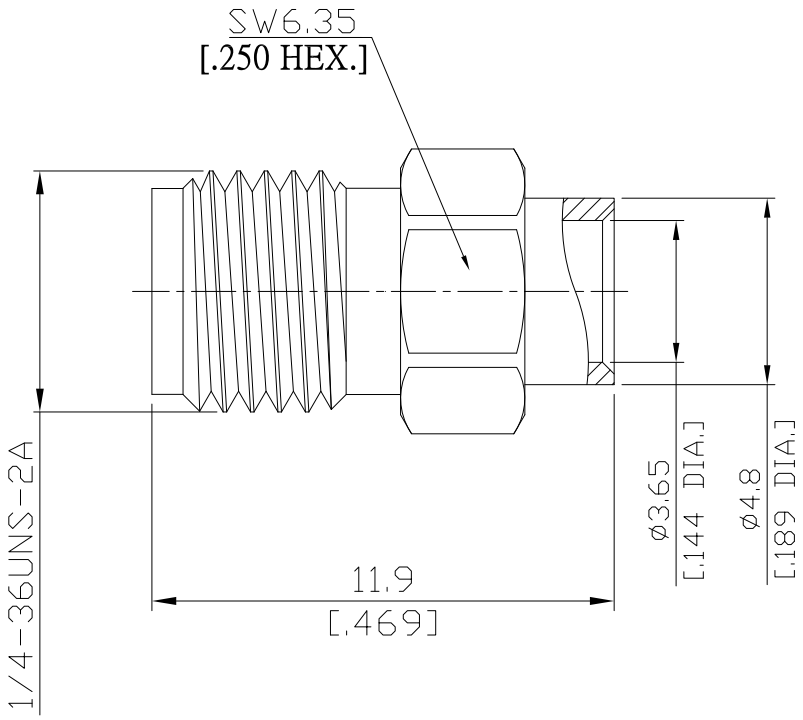
ROSNOL
RF/Microwave Interconnect

Technical Data Sheet

3.5mm Jack (Female) Connector Solder/Solder DC-26.5GHz VSWR1.2

PC2E50-0141A / 9X



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

Interface

According to	IEC 61169-23, IEEE Std 287-2007
Mechanically Compatible with	2.92mm and SMA

Electrical Data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
VSWR (Return Loss)	≤ 1.20 (≥ 20.83 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Center Contact Resistance	≤ 3.0 mΩ
Outer Contact Resistance	≤ 2.0 mΩ
Test Voltage (at sea level)	750 V rms
Working Voltage (at sea level)	250 V rms
RF Leakage	≥ 100 dB up to 1 GHz

- Limitations are possible due to the used cable type -

Material And Plating

Piece Parts	Material	Plating
Centre contact	Beryllium Copper	Gold plating, 3 μinch(Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless steel	Passivate
Insulator	PTFE	
Gasket	Silicone Rubber	

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Mechanical Data

Coupling mechanisms	Screw Lock
Centre Conduct	solder
Cable entry	solder
Mating Cycles	≥ 500
Coupling Test Torque	1.7 Nm
Recommended Torque	0.9 Nm

Environmental Data

Temperature Range	-40°C to +85°C
Thermal Shock	MIL-STD-202, Meth. 107, Cond. B
Corrosion	MIL-STD-202, Method 101, Condition B
Vibration	MIL-STD-202, Meth. 204, Cond. D
Shock	MIL-STD-202, Meth. 213, Cond. I
Moisture Resistance	MIL-STD-202, Meth. 106
RoHS	compliant

Packing

Single or 100

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