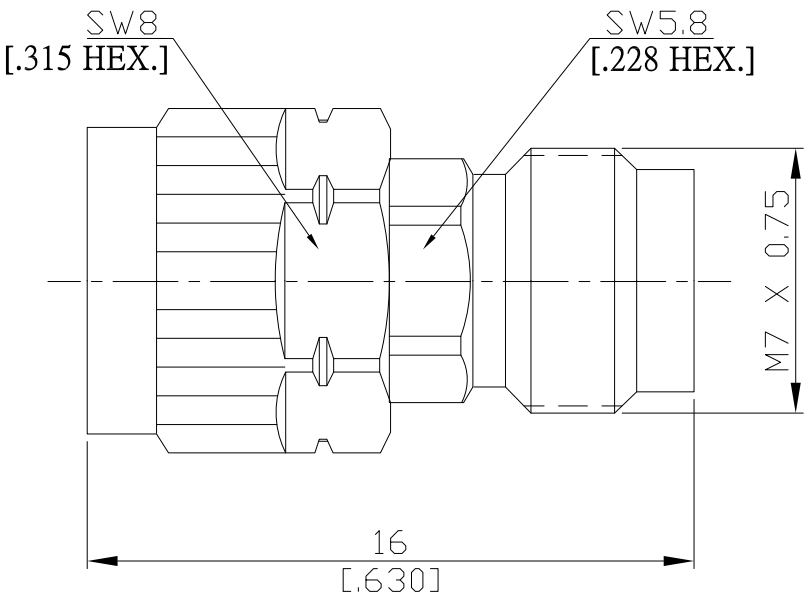
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

2.4mm Plug (Male) to 2.4mm Jack (Female) Fixed Attenuator
DC-50GHz VSWR1.3

FA-Q1Q25A-50G2W-- / 9XX-9X



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

Interface

Mechanically compatible with	1.85mm
According to	IEC 61169-40, IEEE Std 287-2007

Electrical Data

Impedance	50 Ω
Frequency	DC to 50 GHz
VSWR (Return Loss)	≤ 1.30 (≥ 17.7 dB)
Insertion Loss	≤ 0.05 x √F (GHz) dB
Insulation Resistance	≥ 5 GΩ
Input Power	2 Watts average to 25°C

Accuracy Of Attenuation & Power

ATTN. (dB)	DEVIATION (dB) DC-50 GHz	AVG. *INPUT POWER @ 25°C
1	± 0.50dB	2.0 WATTS
2		
3	± 0.30dB	
4		
5		
6		
7	± 0.50dB	
8		
9		
10		
20	± 0.70dB	
30	± 1.00dB	

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Material And Plating

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	
Gasket	Silicone Rubber	
Coupling Nut	Stainless Steel	Passivated

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Centre Contact	Beryllium Copper	Gold plating, 3 μinch (Non-magnetic nickel-phosphorus underplating, 80 μinch)
Body	Stainless Steel	Passivated
Insulator	PEI	

Mechanical Data

Coupling mechanisms	Screw-lock
Mating Cycles	≥ 500
Coupling Nut Retention	N/A
Center Contact Captivation: axial	≥ 20 N
Weight	0.0040 kg
Coupling Test Torque	1.65 Nm max.
Recommended Torque	0.9 Nm

Environmental Data

Temperature Range	-55°C to +125°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture Resistance	IEC 61169-1, Subclause 9.4.3
RoHS	compliant

Packing

Single or 100

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