

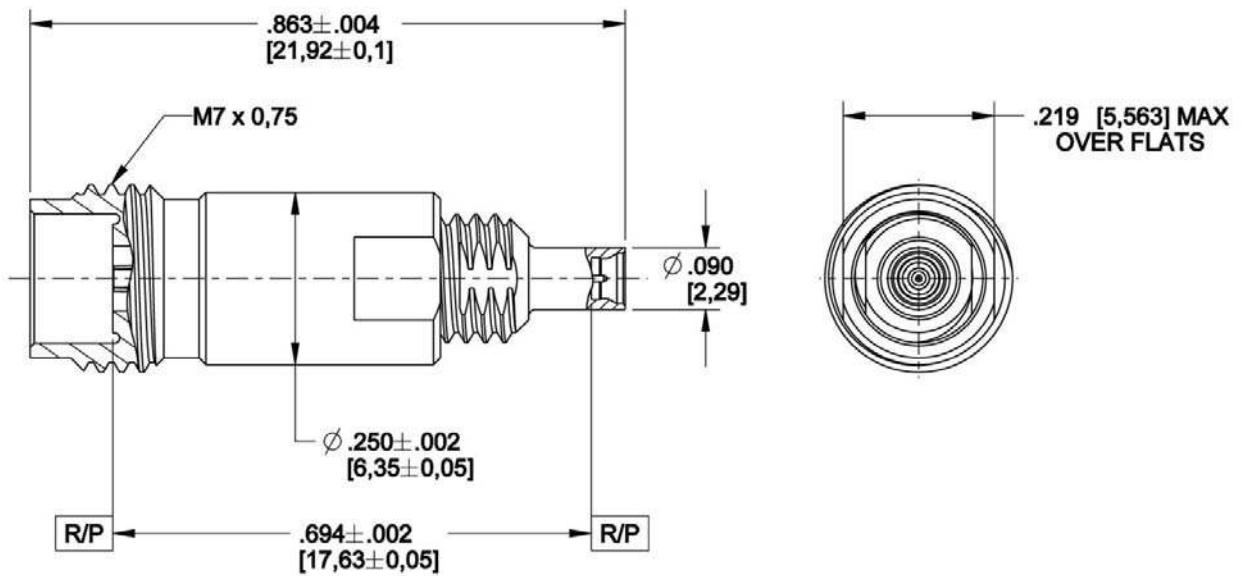
Technical Data Sheet

Rosenberger

WSMP

Male Full Detent to 2.4mm
Female Test Adapter

W1S109-K00S3



All dimensions are in inches [mm]

Interface

According to

Rosenberger WSMP™ Interface standards

Material and plating

Connector parts

WSMP (M) and 2.4mm Body
Contact

Material

Stainless Steel
CuBe

Plating

Passivated
Hard gold 50µIN [1,27µm] min over
Nickel 50µIN [1,27µm] min

Dielectric
Dielectric

PTFE
Ultem® 1000

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Electrical data

Impedance	50 Ω
Frequency	DC to 50 GHz
Return loss (typical)	≥ 26 dB, DC to 40 GHz ≥ 19 dB, 40 to 50 GHz
Insertion loss	$\leq 0.12 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 3.5 \times 10^3$ M Ω
Center contact resistance	≤ 2.0 m Ω
Outer contact resistance	≤ 6.0 m Ω
Test voltage (at sea level)	250 V rms
RF High Potential (at sea level)	150 V rms @ 5 MHz
RF-leakage	≥ -80 dB @ 3 GHz (typical mated pair)

Mechanical data

Mating cycles	
- Full Detent	≥ 100
- Smooth Bore	≥ 500
- Ultra Smooth Bore	≥ 500
Engagement force (typical)	
- Full Detent	2.5 lb _f [11 N]
- Smooth Bore	1.2 lb _f [5.3 N]
- Ultra Smooth Bore	1.0 lb _f [4.5 N]
Disengagement force (typical)	
- Smooth Bore	4.5 lb _f [20 N]
- Smooth Bore	1.0 lb _f [4.5 N]
- Ultra Smooth Bore	1.0 lb _f [4.5 N]

Environmental data

Temperature range	-55°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106, except Step 7B
Max soldering temperature	IEC 61760-1, +500°F [+260°C] for 10 seconds
2002/95/EC (RoHS)	compliant

Tooling

Extraction tool	N/A
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Suitable cables

N/A

Packing

Standard	1 per box
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RF_35/05.10/6.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hosler	07/25/2014	M. Peeran	07/25/2014	a01	ECN 14-0001	M. Peeran	07/25/2014
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