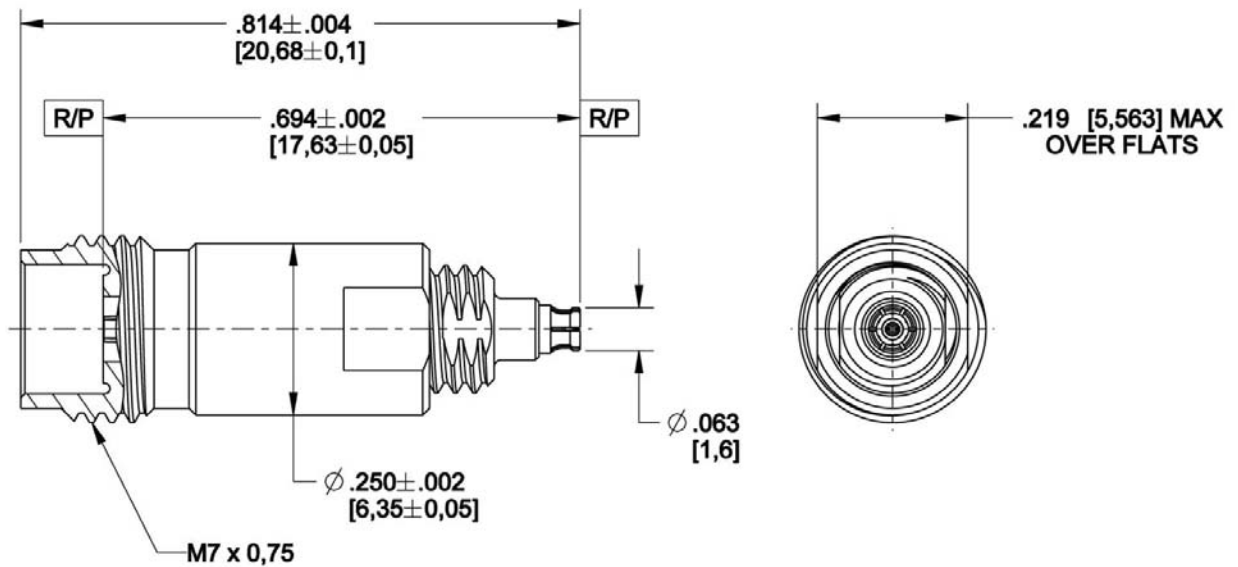


WSMP

Female to 2.4mm Female  
Test Adapter

**W1K109-K00D3**



All dimensions are in inches [mm]

**Interface**

According to

Rosenberger WSMP™ Interface standards

**Material and plating**

**Connector parts**

WSMP (F) Body and Contact

**Material**

CuBe

**Plating**

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

2.4mm Body

Dielectric

Dielectric

Stainless Steel

PTFE

Ultem® 1000

# Technical Data Sheet

# Rosenberger

WSMP

Female to 2.4mm Female  
Test Adapter

W1K109-K00D3

## Electrical data

Impedance	50 $\Omega$
Frequency	DC to 50 GHz
Return loss (typical)	$\geq 26$ dB, DC to 40 GHz $\geq 19$ 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 $\Omega$
Center contact resistance	$\leq 2.0$ m $\Omega$
Outer contact resistance	$\leq 6.0$ m $\Omega$
Test voltage (at sea level)	250 V rms
RF High Potential (at sea level)	150 V rms @ 5 MHz
RF-leakage	$\geq -80$ dB @ 3 GHz (typical mated pair)

## Mechanical data

Mating cycles	
- Full Detent	$\geq 100$
- Smooth Bore	$\geq 500$
- Ultra Smooth Bore	$\geq 500$
Engagement force (typical)	
- Full Detent	2.5 lb <sub>f</sub> [11 N]
- Smooth Bore	1.2 lb <sub>f</sub> [5.3 N]
- Ultra Smooth Bore	1.0 lb <sub>f</sub> [4.5 N]
Disengagement force (typical)	
- Smooth Bore	4.5 lb <sub>f</sub> [20 N]
- Smooth Bore	1.0 lb <sub>f</sub> [4.5 N]
- Ultra Smooth Bore	1.0 lb <sub>f</sub> [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

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R. Hosler	07/25/2014	M. Peeran	07/25/2014	a01	ECN 14-0001	M. Peeran	07/25/2014
Rosenberger of North America, LLC P.O. Box 309 Akron, PA USA 17501 <a href="http://www.rosenbergerna.com">www.rosenbergerna.com</a>				Tel. : +1.717.859.8900 Fax : +1.717.859.7044 Email : <a href="mailto:info@rosenbergerna.com">info@rosenbergerna.com</a>			Page 2 / 2