

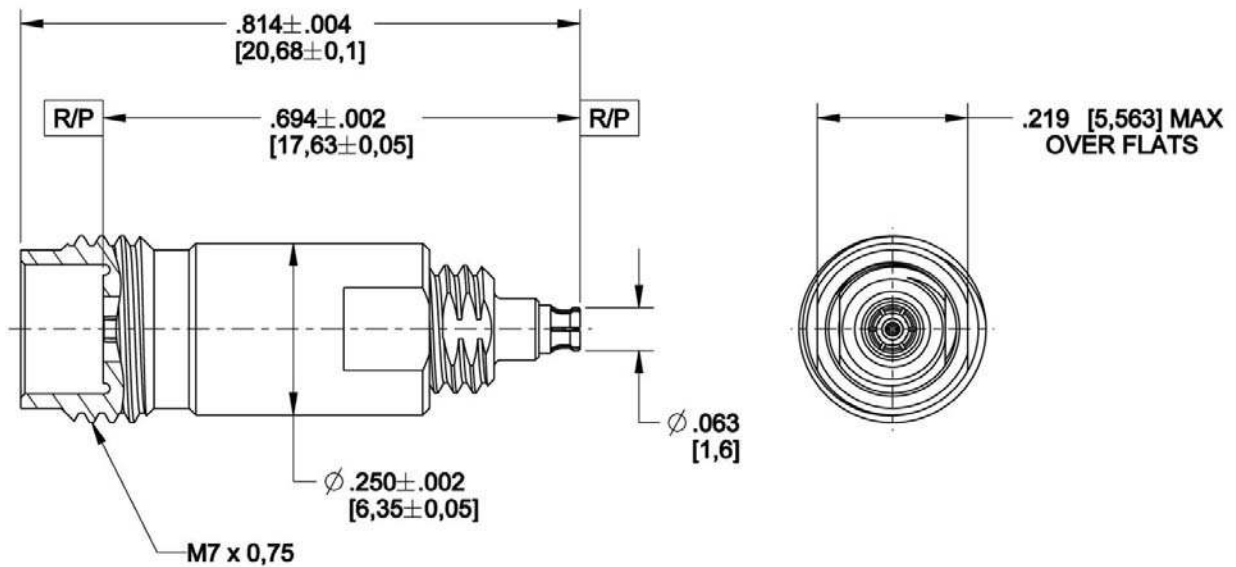
# Technical Data Sheet

# Rosenberger

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

Stainless Steel

Dielectric

PTFE

Dielectric

Ultem® 1000

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## 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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