



All dimensions are in inches [mm]

Unless otherwise specified, tolerances are as follows: .XXX ± .001 [0,025] .XXXX ± .0005 [0,012]

**Interface**

According to

Rosenberger WSMP™ Interface standards

**Material and plating**

**Connector parts**

WSMP (F) Body and Contact

**Material**

CuBe per ASTM B196

**Plating**

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

2.92mm Body

Stainless Steel per  
ASTM A582

Passivated

Dielectric

PTFE PER ASTM D1710

Dielectric

Ultem® 1000 PER D5205

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# Technical Data Sheet

# Rosenberger

WSMP

Female to 2.92mm Female  
Test Adapter

W1K102-K00D3

### Electrical data

Impedance	50 Ω
Frequency	DC to 40 GHz
Return loss (typical)	≥ 19 dB, DC to 40 GHz
Insertion loss	≤ 0.12 x √f(GHz) dB
Insulation resistance	≥ 3,500 MΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
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 <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)	
- Full Detent	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-202-107, Condition B
Corrosion	MIL-STD-202-101
Vibration	MIL-STD-202-204, Condition D
Shock	MIL-STD-202-213, Condition I
Moisture resistance 2002/95/EC (RoHS)	MIL-STD-202-106, except Step 7B compliant

### Tooling

Extraction tool	N/A
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### Suitable cables

N/A

### Packing

Standard

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hosler	8/18/14	M. Peeran	8/18/14	a00	Released per 19-s000	P. Sill	1/11/19

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