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# **Technical Data Sheet**

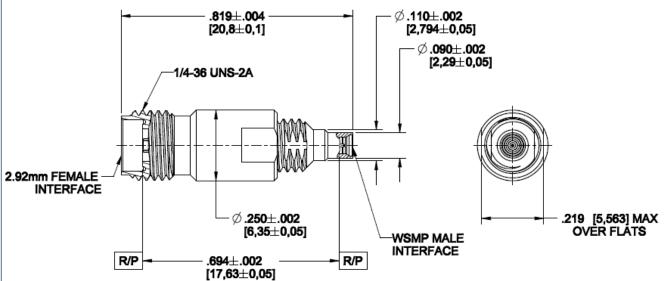
# Rosenberger

**WSMP** 

Male Full Detent to 2.92mm Female Test Adapter

W1S102-K00S3





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 (M) and 2.92mm Body

Contact

Dielectric

Dielectric

Material

Stainless Steel per ASTM A582 CuBe per ASTM B196

PTFE per D1710

Ultem® 1000 per ASTM D5205

**Plating** 

Passivated

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

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# Technical Data Sheet Rosenberger

**WSMP** 

Male Full Detent to 2.92mm Female Test Adapter

W1S102-K00S3

# Electrical data

Impedance Frequency

Return loss (typical)

Insertion loss

Insulation resistance Center contact resistance Outer contact resistance Test voltage (at sea level)

RF High Potential (at sea level)

RF leakage

 $50 \Omega$ 

DC to 40 GHz

 $\geq$  19 dB, DC to 40 GHz

 $\leq 0.12 \text{ x } \sqrt{\text{f(GHz)}} \text{dB}$ 

 $\geq$  3.500 M $\Omega$ 

 $\leq$  6.0 m $\Omega$ 

 $\leq$  2.0 m $\Omega$ 

250 V rms

150 V rms @ 5 MHz

≥ -80 dB @ 3 GHz (typical mated pair)

# Mechanical data

Mating cycles

Full DetentSmooth BoreUltra Smooth Bore

Engagement force (typical)

Full DetentSmooth BoreUltra Smooth Bore

Disengagement force (typical)

Smooth BoreSmooth BoreUltra Smooth Bore

≥ 100 ≥ 500

≥ 500

2.5 lb<sub>f</sub> [11 N] 1.2 lb<sub>f</sub> [5.3 N] 1.0 lb<sub>f</sub> [4.5 N]

-

 $\begin{array}{lll} 4.5 \; lb_f & [20 \; N] \\ 1.0 \; lb_f & [4.5 \; N] \\ 1.0 \; lb_f & [4.5 \; N] \end{array}$ 

### **Environmental data**

Temperature range

Thermal shock

Corrosion

Vibration Shock

Moisture resistance

Max soldering temperature

2002/95/EC (RoHS)

-55°C to +165°C

MIL-STD-202-107, Condition B

MIL-STD-202-101

MIL-STD-202-204, Condition D MIL-STD-202-213, Condition I MIL-STD-202-106, except Step 7B

IEC 61760-1, +500°F [+260°C] for 10 seconds

compliant

# Tooling

Extraction tool

N/A

# Suitable cables

N/A

# **Packing**

Standard

Draft	Date	Approved	Date	
R. Hosler	8/18/14	M. Peeran	8/18/14	

Rev.Engineering change numberNameDatea00Released per 19-s000P. Sill2/6/19

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