



All dimensions are in inches [mm]

**Interface**

According to

WSMP™ Interface according to Rosenberger standards  
1.85mm interface according to MIL-STD-348

**Material and plating**

**Connector parts**

WSMP Female Body  
and Contact  
1.85mm Body  
Dielectric  
Dielectric

**Material**

BeCu  
  
Stainless Steel  
PTFE  
Ultem® 1000

**Plating**

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

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WSMP

WSMP Female to  
1.85mm Jack Test Adapter

**W1K108-K00D3**

**Electrical data**

Impedance 50 Ω  
 Frequency DC to 65 GHz  
 Return loss (typical) ≥ 30 dB, DC to 26.5 GHz  
 ≥ 16 dB, 26.5 to 50 GHz  
 ≥ 14 dB, 50 to 65 GHz  
 Insertion loss ≤ 0.12 x √f(GHz) dB  
 Insulation resistance ≥ 3.5 x 10<sup>3</sup> MΩ  
 Center contact resistance ≤ 2.0 mΩ  
 Outer contact resistance ≤ 6.0 mΩ  
 Test voltage (at sea level) 250 V rms  
 RF High Potential (at sea level) 150 V rms @ 5 MHz  
 RF-leakage ≥ -80 dB

**Mechanical data**

Mating cycles  
 - Full Detent mating plug ≥ 100  
 - Smooth Bore mating plug ≥ 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]  
 Disengagement force (typical)  
 - Full Detent 4.5 lb<sub>f</sub> [20 N]  
 - Smooth Bore 1.0 lb<sub>f</sub> [4.5 N]

**Environmental data**

Temperature range -55°C to +165°C  
 Thermal shock N/A  
 Corrosion N/A  
 Vibration N/A  
 Shock N/A  
 Moisture resistance N/A  
 2002/95/EC (RoHS) compliant

**Tooling**

Extraction tool N/A

**Suitable cables**

N/A

**Packing**

Standard 1 per box  
 Weight 0.007059 lb. [3.202 g] / pc

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RF\_35/05.10/6.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hosler	1/24/2014	M. Peeran	1/24/2014	a01	ECN 14-0001	M. Peeran	1/24/2014
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