



All dimensions are in inches [mm]  
Unless otherwise specified:  $XXX \pm .002$  [0,05]

**Interface**

According to Rosenberger WSMP™ Interface standards

**Material and plating**

**Connector parts**  
Body and contact

**Material**  
CuBe per ASTM B196

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

Dielectrics

PTFE per ASTM D1710

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**Technical Data Sheet****Rosenberger****WSMP**Adaptor (Bullet)  
Female to Female**W1K10N-K00D3****Electrical data**

Impedance	50 Ω
Frequency	DC to 100 GHz
Return loss (typical)	≥ 26 dB, DC to 26.5 GHz
	≥ 19 dB, 26.5 to 65 GHz
Insertion loss	≤ 0.12 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 3.5 x 10 <sup>3</sup> 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 (typical mated pair)

**Mechanical data**

Mating cycles	
- Full Detent	≥ 100
- 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]
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	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	MIL-STD-202-106, except Step 7B
2002/95/EC (RoHS)	compliant

**Tooling**

Installation/Extraction tool	W1W002-000
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**Packing**

Standard

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hosler	8/4/14	M. Peeran	8/4/14	a01	Revised per ECN 19-u051	R. Hosler	5/16/2019
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