



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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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 √f(GHz) dB  
 Insulation resistance ≥ 3.5 x10<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

**Packing**

Standard

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RF\_35/05.10/6.0

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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