



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



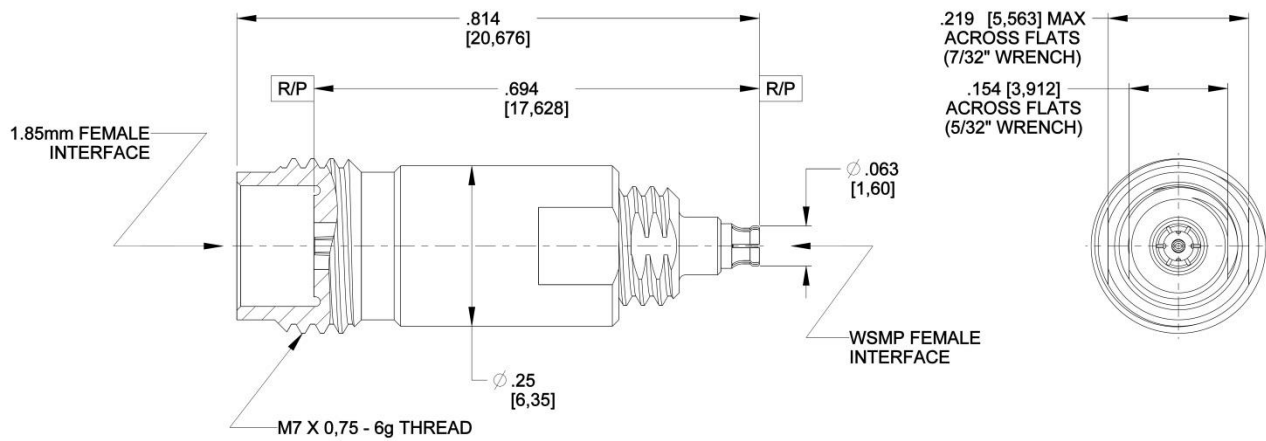
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All dimensions are in inches [mm]

**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  
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 x10<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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|-----------|-----------|-----------|-----------|------|---------------------------|-----------|-----------|
| 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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