



All dimensions are in inches [mm]

Interface

According to

WSMP™ Interface according to Rosenberger standards
1.85mm interface according to IEC 61169-32 standards

Material and plating

Connector parts

WSMP Male and 1.85mm Body
Contact

Material

Stainless Steel
BeCu

Plating

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

Dielectric
Dielectric

PTFE
Ultem® 1000

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WSMP

WSMP Male to
1.85mm Jack Test Adapter

W1S108-K00S3

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 ³ 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 _f [11 N]
- Smooth Bore	1.2 lb _f [5.3 N]
Disengagement force (typical)	
- Full Detent	4.5 lb _f [20 N]
- Smooth Bore	1.0 lb _f [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
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Suitable cables

N/A

Packing

Standard	1 per box
Weight	0.0073 lb. [3.3 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	5/7/2014
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