



All dimensions are in inches [mm]

Unless otherwise specified, tolerances are as follows: .XXX ±.002 [0,05]

Interface

According to Rosenberger WSMP™ Interface standards

Material and plating

Connector parts

Body and contact

Material

Kovar® per ASTM F15

Plating

Hard gold 6 µIN [1,27 µm] min over nickel

Dielectric

Corning 7070 glass

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WSMP

Male 2 Port Smooth Bore
SMT Right Angle Launch

W1S15A-40ML5

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss (typical)*	≥ 26 dB, DC to 40 GHz
	≥ 19 dB, 40 to 50 GHz
Insertion loss	≤ 0.12 x √f(GHz) dB
Insulation resistance	≥ 3,500 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)

*Connector only, return loss in application depends decisively on PCB layout

Mechanical data

Mating cycles	
- Smooth Bore	≥ 500
Engagement force (typical)	
- Smooth Bore	1.2 lb _f [5.3 N]
Disengagement force (typical)	
- Smooth Bore	1.0 lb _f [4.45 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
Max soldering temperature 2002/95/EC (RoHS)	IEC 61760-1, +500°F [+260°C] for 10 seconds compliant

Tooling

Extraction tool	N/A
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Suitable cables

N/A

Packing

Standard

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
J. Havener	2.2.17	-	-	a00	Released per 19-s000	P. Sill	2/14/19
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