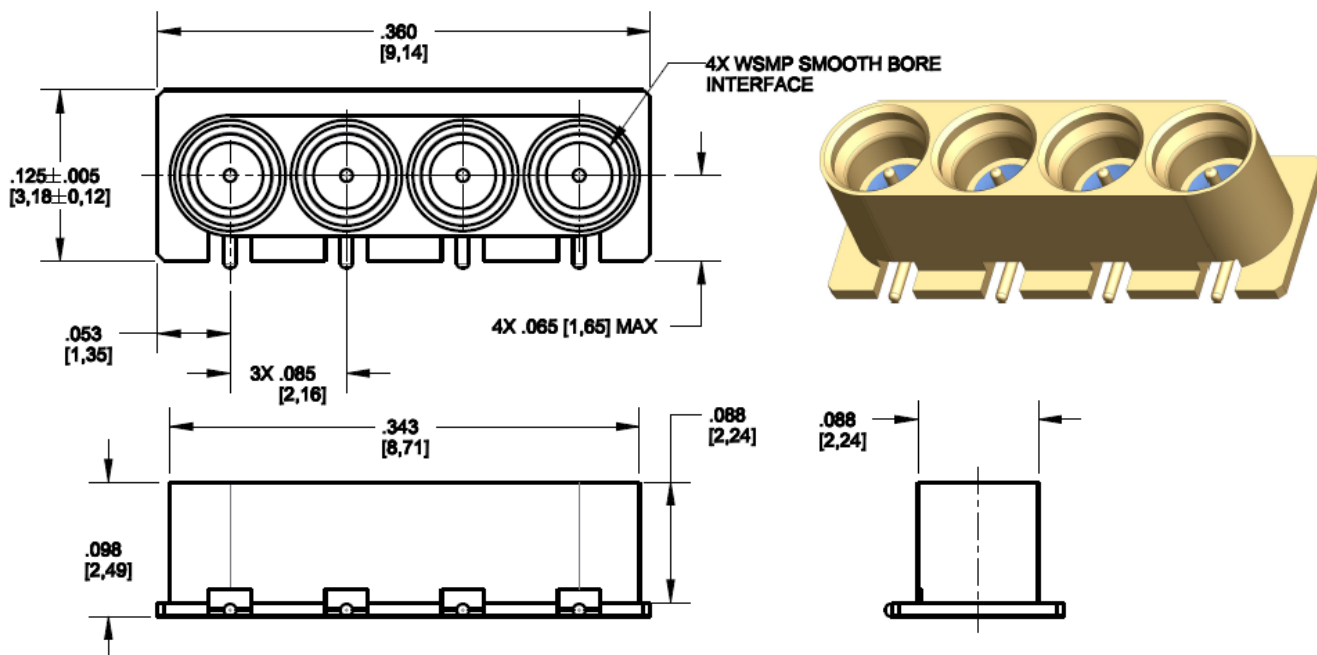


Technical Data Sheet

Rosenberger

WSMP

Male 4 Port Smooth Bore
SMT Right Angle Launch**W1S15B-40ML5**

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, 6µIN [0,15µm] min, over Nickel

Dielectric

Corning 7070 Glass

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

Technical Data Sheet		Rosenberger
WSMP	Male 4 Port Smooth Bore SMT Right Angle Launch	W1S15B-40ML5

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	IEC 61760-1, +500°F [+260°C] for 10 seconds
2002/95/EC (RoHS)	compliant

Tooling

Extraction tool	N/A
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Suitable cables

N/A

Packing

Standard

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
J. Havener	3/16/2017	-	-	a00	Released per 19-s000	P. Sill	2/14/19

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