

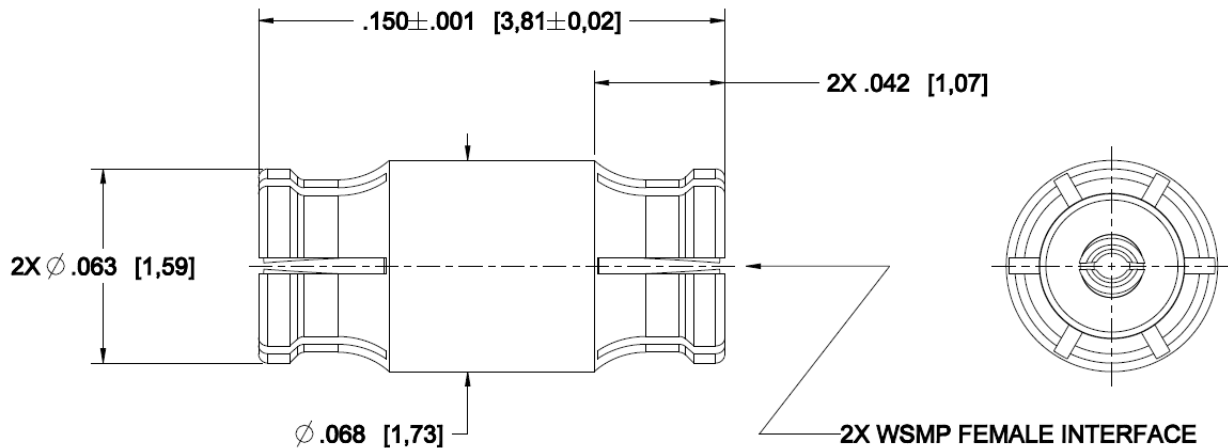
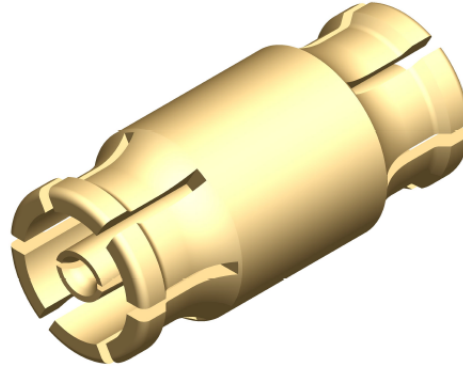
Technical Data Sheet

Rosenberger

WSMP

Adaptor (Bullet)
Female to Female

W1K10F-K00D3



All dimensions are in inches [mm]

Unless otherwise specified tolerances are as follows: $.XXX \pm .002$ [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

Dielectric

PTFE per ASTM D1710

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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 × $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 3.5 × 10 ³ 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)

-Limitations are possible due to the used cable type

Mechanical data

Mating cycles		
- Full Detent	≥ 100	
- Smooth Bore	≥ 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	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
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Packing

Standard

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Hosler	9/24/13	M. Peeran	9/24/13	a01	Revised per ECN 19-0674	R. Fisher	5/16/2019
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