

Technical Data Sheet		Rosenberger
WSMP	Adaptor (Bullet) Female to Female	W1K10C-K00D3
Technical drawing showing side and end views of the adaptor connector with dimensions: - Overall length: $.125 \pm .001$ [3,18 ± 0,02] - Length of outer shell: $2X .042$ [1,07] - Inner diameter: $2X \varnothing .063$ [1,6] - Outer diameter: $\varnothing .068$ [1,73] - End view label: 2X WSMP FEMALE INTERFACE		
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 Dielectric Material CuBe per ASTM B196 PTFE per ASTM D1710 Plating Hard gold, 50µIN [1,27µm] min, over nickel, 50µIN [1,27µm] min		
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Technical Data Sheet

Rosenberger

WSMP

Adaptor (Bullet)
Female to Female

W1K10C-K00D3

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	$\leq 0.12 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 3.5 \times 10^3$ M Ω
Center contact resistance	≤ 6.0 m Ω
Outer contact resistance	≤ 2.0 m Ω
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)

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
R. Hosler	7/22/2013	J. Mohammed	7/22/2013

Rev.	Engineering change number	Name	Date
a01	Revised per ECN 19-0674	M. Peeran	5/16/2019

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