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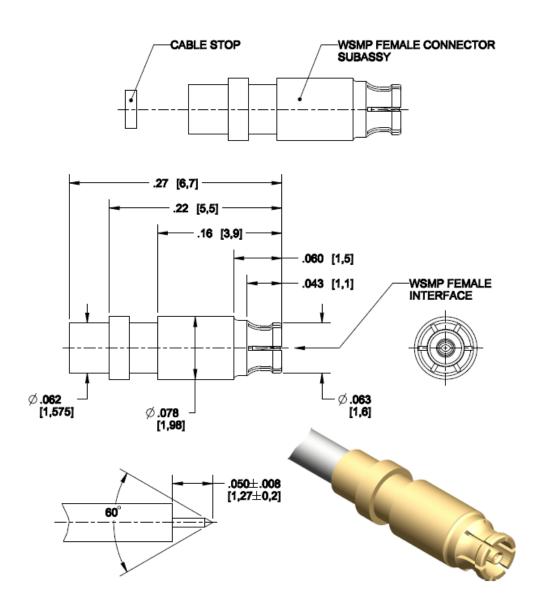
Technical Data Sheet

Rosenberger

WSMP

STRAIGHT JACK

W1K101-270D3



All dimensions are in inches [mm]

Interface

According to

Material and plating

Connector parts

Body

Contact

Dielectric

Cable Stop

Rosenberger WSMP™ Interface standards

Material

CuBe per ASTM B196

CuBe per ASTM B196

PTFE

Ultem® 1000

Plating

Hard Gold, 50μIN [1,27μm] min, over Nickel, 50μIN [1,27μm] min

Hard Gold, 50µIN [1,27µm] min, over

Nickel, 50µIN [1,27µm] min

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35/05.10/6.0

Technical Data Sheet

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WSMP

STRAIGHT JACK

W1K101-270D3

Electrical data

Impedance Frequency

Return loss (typical)

Insertion loss

Insulation resistance Center contact resistance Outer contact resistance Test voltage (at sea level) RF High Potential (at sea level)

RF-leakage

 50Ω

DC to 100 GHz

 \geq 26 dB, DC to 26.5 GHz

≥ 19 dB, 26.5 to 65 GHz

 $\leq 0.12 \text{ x } \sqrt{f(GHz)} dB$

 $\geq 3.5 \times 10^3 M\Omega$

 \leq 6.0 m Ω

 \leq 2.0 m Ω

250 V rms

150 V rms @ 5 MHz

≥ -80 dB (typical mated pair)

Mechanical data

Mating cycles

Full Detent

Smooth Bore

Engagement force (typical)

Full Detent

Smooth Bore

Disengagement force (typical)

Full Detent

Smooth Bore

≥ 100

≥ 500

2.5 lb_f [11 N]

1.2 lb_f [5.3 N]

4.5 lb_f [20 N]

1.0 lb_f [4.5 N]

Environmental data

Temperature range

Thermal shock

Corrosion

Vibration Shock

Moisture resistance

2002/95/EC (RoHS)

-55°C to +165°C

MIL-STD-202-107, Condition B

MIL-STD-202-101

MIL-STD-202-204, Condition D

MIL-STD-202-213, Condition I MIL-STD-202-106, except Step 7B

compliant

Tooling

Extraction tool

W1W001-000

Suitable cables

UT047-TP, RTK 047, RTK FLEX 047

Packing

Standard

Draft	Date	Approved	Date
Jac Havener	6/22/2011	Paul Czikora	6/22/2011

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Rev.	Engineering change number	Name	Date
a01	Revised Per ECN 18-0001	R. Shirey	9/4/2018

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