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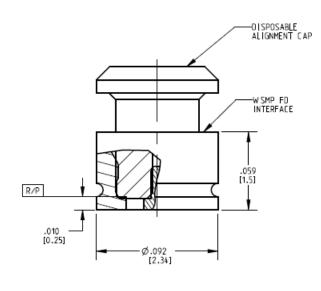
# **Technical Data Sheet**

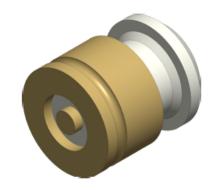
# Rosenberger

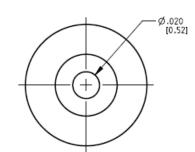
**WSMP** 

WSMP Straight, FD, PCB Plug, Pin/shroud kit

W1S104-40ML5







All dimensions are in inches [mm] Unless otherwise specified: XXX ±.002 [0,050]

# Interface

According to

Rosenberger WSMP™ Interface standards

# Material and plating

Connector parts
Body and contact

Disposable Cap

Material

CuBe per ASTM B196

PTFE per D1710

**Plating** 

Hard gold, 6 µIN [0,15 µm] min, over

nickel, 50μlN [1,27 μm] min

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# **Technical Data Sheet**

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**WSMP** 

WSMP Straight, FD, PCB Plug, Pin/shroud kit

W1S104-40ML5

Electrical data

Impedance  $50 \Omega$ 

Frequency DC to 65 GHz

Return loss (typical)\*  $\geq$  26 dB, DC to 26.5 GHz

≥ 19 dB, 26.5 to 65 GHz

 $\begin{array}{ll} \text{Insertion loss} & \leq 0.12 \text{ x } \sqrt{f(GHz)} \text{dB} \\ \text{Insulation resistance} & \geq 3,500 \text{ M}\Omega \end{array}$ 

Center contact resistance  $\leq$  6.0 m $\Omega$  Outer contact resistance  $\leq$  2.0 m $\Omega$  Test voltage (at sea level) 250 V rms

RF High Potential (at sea level) 150 V rms @ 5 MHz

RF leakage (typical mated pair) ≥ -80 dB

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

# Mechanical data

Mating cycles

- Full Detent  $\geq 100$ 

Engagement force (typical)

- Full Detent 2.5 lb<sub>f</sub> [11 N]

Disengagement force (typical)

Full Detent 4.5 lb<sub>f</sub> [20 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**

N/A

# Suitable cables

N/A

# **Packing**

Standard

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
P. Sill	3/12/19	J. Havener	3/12/19	b00	Released per 19-s000	P. Sill	3/27/19
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**Authorized Distributor** 

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