# TECHNICAL DATA SHEET

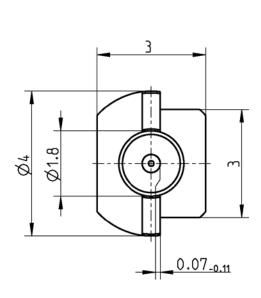
# Rosenberger

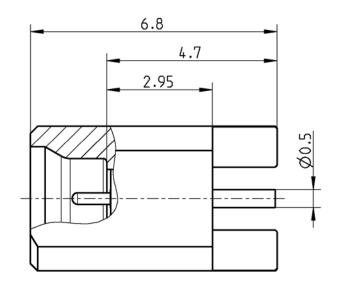
Mini SMP

RIGHT ANGLE PLUG PCB SMOOTH BORE

18S248-40ML5







All dimensions are in mm; tolerances acc. to ISO 2768 m-H

# Interface

According to

MIL-STD-348A, Fig. 328 Mateable with GPPO<sup>TM</sup> (Gilbert Engineering Co., Inc.) and SSMP<sup>TM</sup> (Connectors Devices, Inc.)

### **Documents**

PCB layout

B 222

# Material and plating

Connector parts
Center contact

Outer contact Dielectric

# Material

CuBe Brass PTFE

# **Plating**

AuroDur®, gold plated AuroDur®, gold plated

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# Rosenberger

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Mini SMP

RIGHT ANGLE PLUG PCB **SMOOTH BORE** 

18S248-40ML5

### Electrical data

Impedance  $50 \Omega$ 

Frequency DC to 65 GHz

Return loss  $\geq$  35 dB, DC to 15 GHz

≥ 23 dB, 15 to 25 GHz ≥ 20 dB, 25 to 40 GHz

Insertion loss  $\leq$  0.1 x  $\sqrt{f(GHz)}$  dB, DC to 18 GHz

Insulation resistance  $\geq 5 \text{ G}\Omega$ Center contact resistance  $\leq 6.0 \text{ m}\Omega$ Outer contact resistance  $\leq 2.0 \text{ m}\Omega$ Working voltage (at sea level) 325 V rms 125 V rms (at 70000 feet)

- VSWR in application depends decisive on PCB layout -

#### Mechanical data

Mating cycles

if mating part is smooth bore

Center contact captivation ≥ 5 N from interface side

**Engagement force** 

- smooth bore 11 N typical

Disengagement force

- smooth bore 11 N typical

### Environmental data

Temperature range -55°C to +155°C

Thermal shock MIL-STD-202, Method 107, Condition B Vibration MIL-STD-202, Method 204, Condition A MIL-STD-202, Method 213, Condition A Shock

MIL-STD-202, Method 106 Moisture resistance IEC 60068 55/155/21 Climatic Category

Max. soldering temperature IEC 61760-1, +260°C for 10 sec.

**RoHS** compliant

#### **Tooling**

N/A

### Suitable cables

N/A

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# Weight

Weight 0.4 g/pce

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date		Rev.	Engineering change number	Name	Date
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