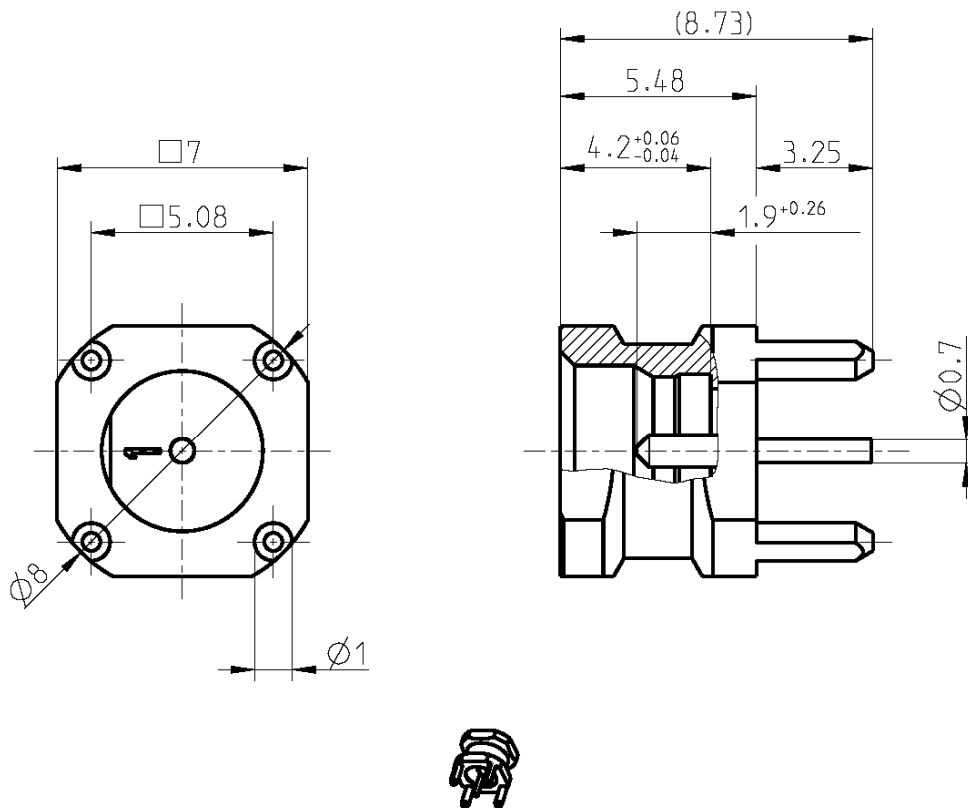




All dimensions are in mm; tolerances acc. to ISO 2768 m-H

Interface

According to

Rosenberger P-SMP

Documents

Panel piercing

B 30

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Brass
Brass
PEEK

Plating

AuroDur®, gold plated
AuroDur®, gold plated

Technical Data Sheet

Rosenberger

P-SMP

STRAIGHT PLUG PCB
LIMITED DETENT

119S103-400L5

Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 30 dB @ DC to 4 GHz ≥ 25 dB @ 4 GHz to 6 GHz
Insertion loss	$\leq 0.03 \times \sqrt{f}$ [GHz] dB
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 3.0 m Ω
Outer contact resistance	≤ 2.0 m Ω
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
Power handling (at 20 °C, sea level, VSWR 1.0)	≤ 200 W @ 2.2 GHz
Intermodulation (3 rd order)	≥ 160 dBc (2 x 43 dBm)

- Connector only, VSWR in application depends decisive on PCB layout

Mechanical data

Mating cycles	≥ 100
Center contact captivation	≥ 7 N
Engagement force	≤ 45 N
Disengagement force	≥ 15 N

Environmental data

Temperature range	-65 °C to +165 °C
Rapid change of temperature	IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (half-sine)
High temperature endurance	IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours)
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	100 pcs in blister
Weight	1.1g / pc

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
Christian Janßen	15.12.10	B. Aicher	08.08.13	a00	13-s302	Fl. Öllerer	30.08.13
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