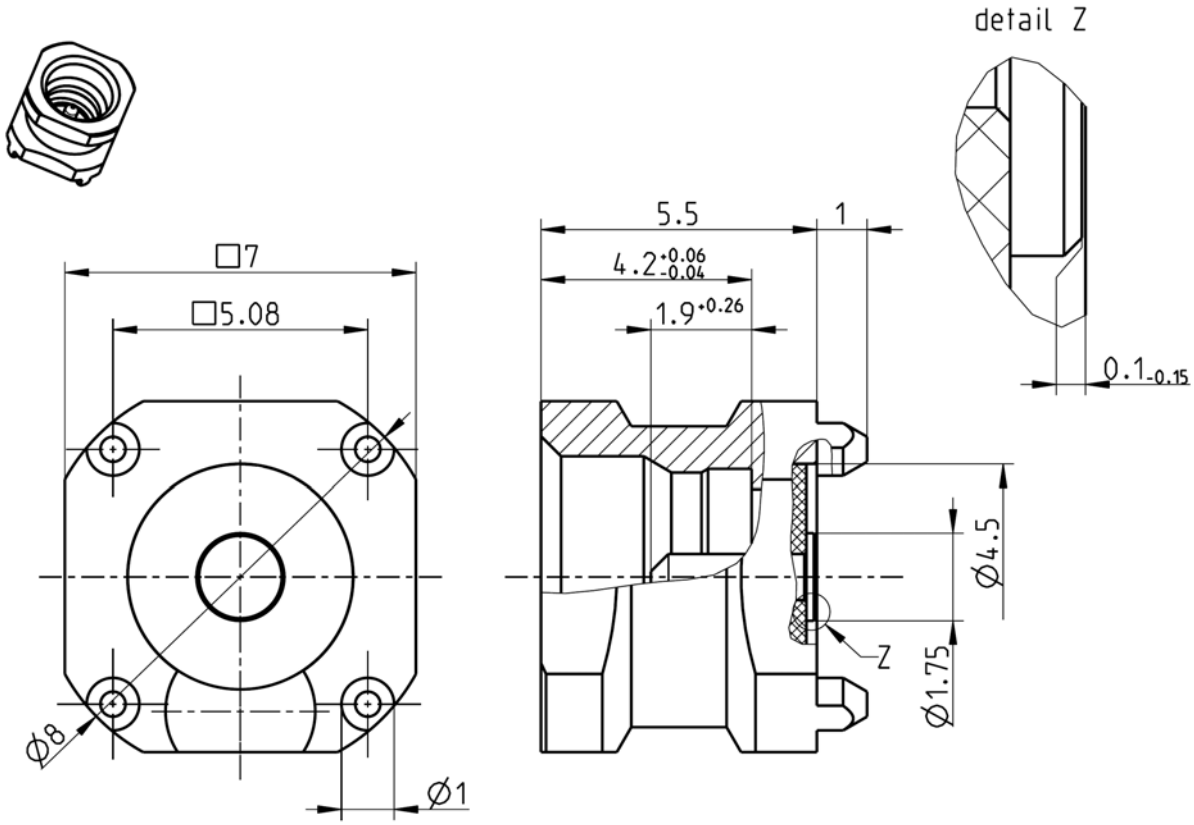
TECHNICAL DATA SHEET	Rosenberger
P-SMP STRAIGHT PLUG FOR PCB LIMITED DETENT	**119S102-40ML5**



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

Interface

According to	Rosenberger P-SMP

Documents

Panel piercing	B 126b

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	AuroDur®, gold plated
Outer contact	Brass	AuroDur®, gold plated
Dielectric	PEEK/LCP	

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Electrical data

Impedance	50 Ω
Frequency	DC to 10 GHz
Return loss	≥ 30 dB, DC to 4 GHz ≥ 25 dB, 4 to 6 GHz
Insertion loss	$\leq 0.03 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 3.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
Test voltage (at sea level)	1000 V rms
Working voltage (at sea level)	480 V rms
Power handling (at 20 °C, sea level)	≤ 200 W @ 2.2 GHz
Intermodulation (3rd 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 max.
Disengagement force	15 N min.

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.
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight	1.1 g/pc

Draft	Date	Approved	Date
Gramsamer J.	25/11/09	Sa. Krautenbacher	11.03.14

Rev.	Engineering change number	Name	Date
d00	14-0352	T. Krojer	11.03.14

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