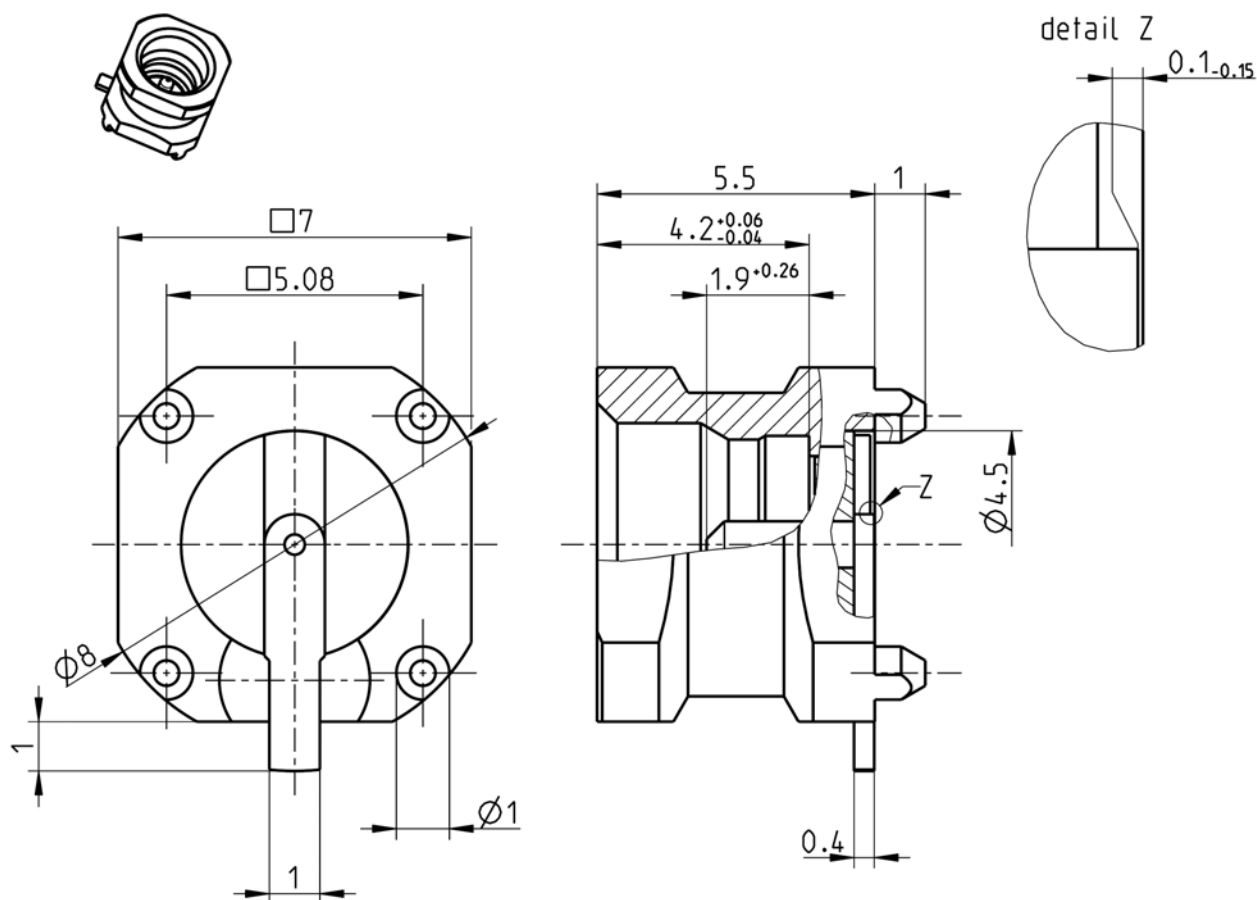


TECHNICAL DATA SHEET

RosenbergerP-SMP STRAIGHT PLUG FOR PCB,
LIMITED DETENT**119S103-40ML5**

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

Interface

According to

Rosenberger P-SMP

DocumentsPanel piercing
Tape & reel packagingB 120C
VG163-80000**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 FOR PCB, LIMITED DETENT		119S103-40ML5			
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		≤ 0.03 x √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 (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 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.					
RoHS		compliant					
Weight							
Weight		1.06 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
Huppenberger	15/12/09	Sa. Krautenbacher	11.03.14	g00	14-0352	T. Krojer	11.03.14
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de			Page 2 / 2