

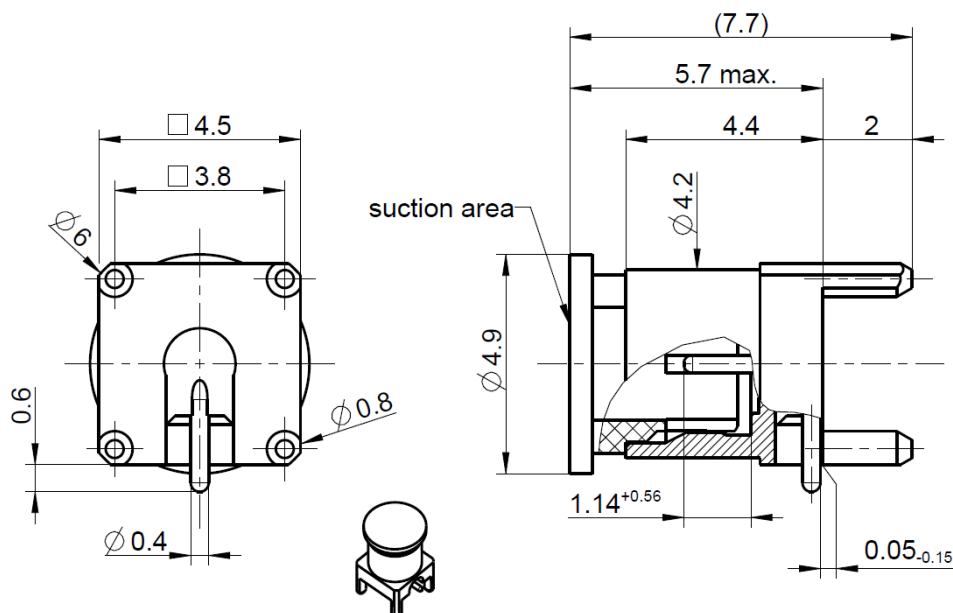
Technical Data Sheet

Rosenberger

SMP

Straight Plug PCB
Limited Detent

19S107-400L5



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

Interface

According to

MIL-STD-348

Documents

PCB layout

please request optimized footprint for your application

Material and Plating

Connector parts

Center contact
Outer contact
Dielectric

Material

CuBe
Brass
Casting resin

Plating

AuroDur®, gold plated
AuroDur®, gold plated

Technical Data Sheet				Rosenberger			
SMP		Straight Plug PCB Limited Detent		19S107-400L5			
Electrical Data							
Impedance		50 Ω					
Frequency		DC to 40 GHz					
Return loss		≥ 26 dB, DC to 12 GHz					
		≥ 17 dB, 12 to 40 GHz					
Insertion loss		≤ 0.05 x √f [GHz] dB					
Insulation resistance		≥ 5 GΩ					
Center contact resistance		≤ 6 mΩ					
Outer contact resistance		≤ 2 mΩ					
Test voltage (at sea level)		500 V rms					
Working voltage (at sea level)		335 V rms					
Contact Current		≤ 1.2A DC					
- Connector only, Return loss in application depends decisive on PCB layout -							
Mechanical Data							
Mating cycles		≥ 500					
Center contact captivation		≥ 7 N					
Engagement force							
- Limited detent		≤ 45 N					
Disengagement force							
- Limited detent		≥ 9 N					
Environmental Data							
Temperature range		-65 °C to +155 °C					
Rapid change of temperature		IEC 60068-2-14 (-65 °C to 155 °C, 1h dwell, 50 cycles)					
Vibration		MIL-STD-202, Method 204, Condition B					
Shock		MIL-STD-202, Method 213, Condition A					
Damp heat		IEC 60068-2-78 (40°C, 93% RH, 56d)					
High temperature endurance		IEC 61169-1, Sub-clause 9.6 (+155 °C, 1000 hours)					
Max. soldering temperature		IEC 61760-1, +260 °C for 10 sec.					
RoHS		compliant					
Tooling				N/A			
Suitable Cables				N/A			
Weight				0.5 g/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.							
For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.							
							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
A. Gasteiger	24.06.15	Chr. Janßen	27.10.20	b00	20-1927	S. Huber-Siegl	27.10.20
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