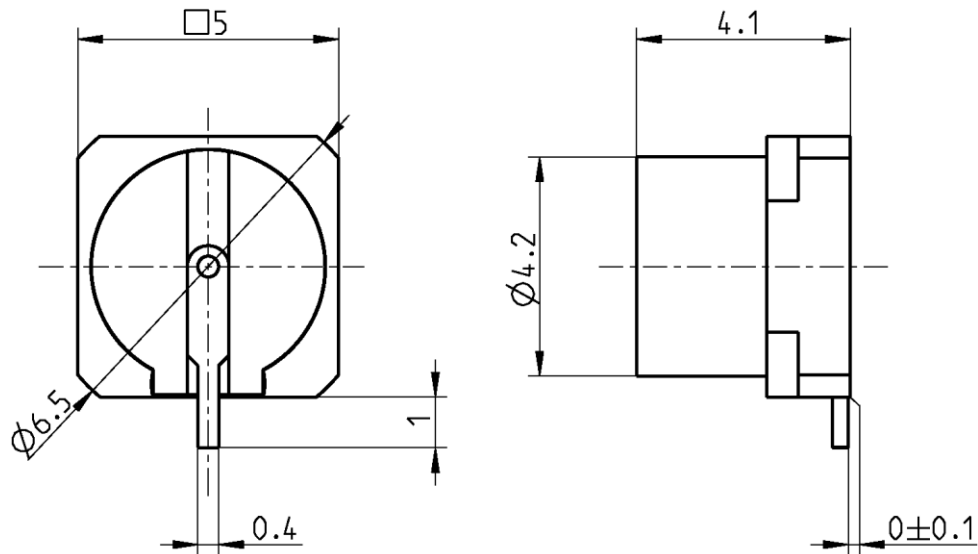


SMP STRAIGHT PLUG PCB
SMOOTH BORE**19S141-40ML5-NM**

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

Interface

Compatible to MIL-STD-348

Documents

PCB layout B 120
Tape & reel packaging VG01.01M00

Material and plating**Connector parts**

Center contact
Outer contact
Dielectric

Material

Spring bronze
Spring bronze
LCP

Plating

AuroDur, gold plated
AuroDur, gold plated

TECHNICAL DATA SHEET

Rosenberger

SMP STRAIGHT PLUG PCB
SMOOTH BORE

19S141-40ML5-NM

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 26 dB, DC to 6 GHz ≥ 21 dB, 6 to 12 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB, DC to 12 GHz
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 6.0 m Ω
Outer contact resistance	≤ 2.0 m Ω
Test voltage	500 V rms
Working voltage	335 V rms
Contact Current	1.2A DC max.

- VSWR in application depends decisive on PCB layout -

Mechanical data

Mating cycles	≥ 1000
Center contact captivation	≥ 7 N
Engagement force	
- smooth bore	9 N max.
Disengagement force	
- smooth bore	2.2 N min.

Environmental data

Temperature range	-65°C to +155°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
Moisture resistance	MIL-STD-202, Method 106
Max. soldering temperature	IEC 61760-1, +260°C for 10 sec.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 0.3 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
F. Michelmann	20/09/10	J_Krautenbacher	02.09.16	d00	16-1508	M_Söldner	02.09.16

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