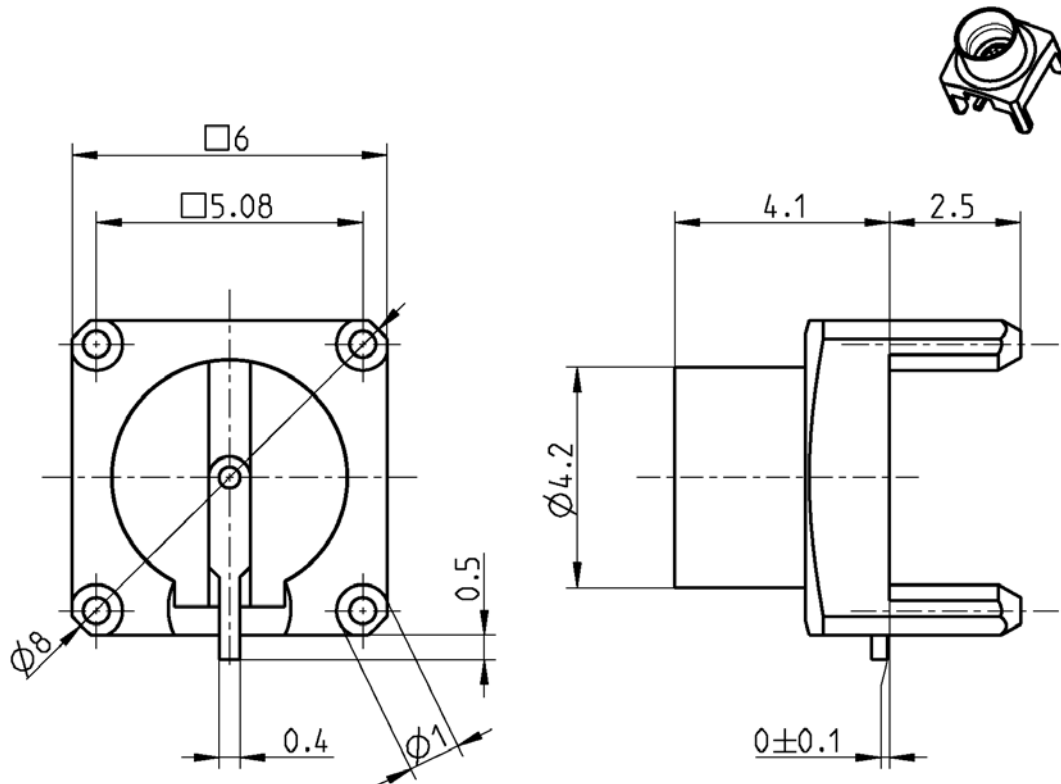




All dimensions are in mm; tolerances acc. ISO 2768 m-H

Interface

According to

MIL-STD-348A, Fig. 326

Documents

PCB layout

B 122

Tape & reel packaging

VG33.01M00

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Brass
Brass
LCP

Plating

AuroDur®, gold plated
AuroDur®, gold plated

TECHNICAL DATA SHEET

Rosenberger®

**SMP STRAIGHT PLUG PCB
SMOOTH BORE**

19S143-400L5

Electrical data

Impedance	50 Ω
Frequency	DC to 26.5 GHz
Return loss	≥ 26 dB, DC to 6 GHz ≥ 23 dB, 6 to 10 GHz ≥ 17 dB, 10 to 18 GHz
Insertion loss	≤ 0.05 x $\sqrt{f(\text{GHz})}$ dB, DC to 18 GHz
Insulation resistance	≥ 5 GΩ
Center contact resistance	≤ 6.0 mΩ
Outer contact resistance	≤ 2.0 mΩ
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.
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	750 pcs in tape & reel, B0750T 100 pcs in blister, B0100B
Weight	0.47 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
A. König	08/08/07	A. König	08/08/07	a00	07-0154	S. Huber-Siegl	08/08/07

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[19S143-400L5](#)