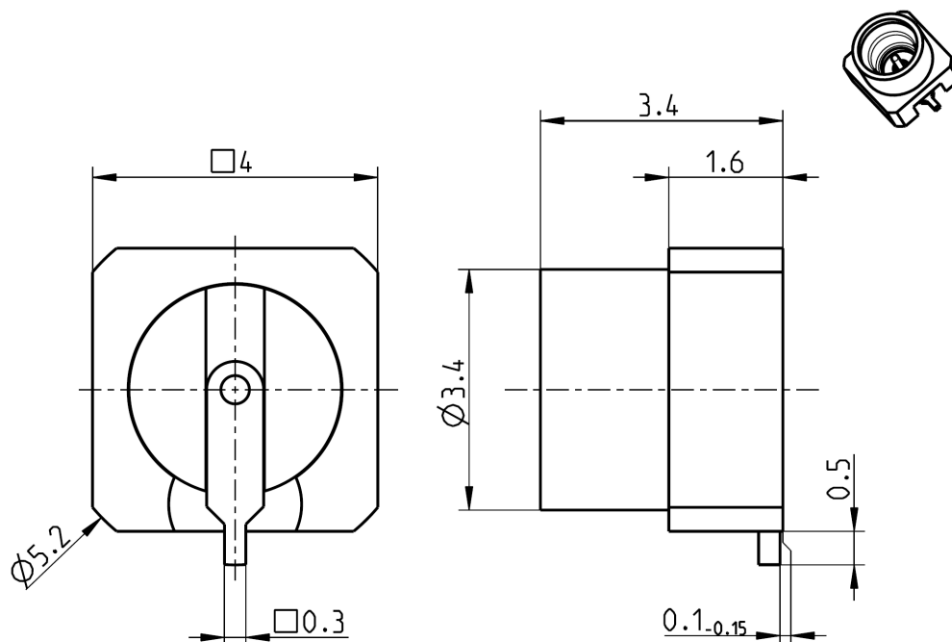




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

MIL-STD-348

Mateable with GPPO™ (Gilbert Engineering Co., Inc.)
and SSMP™ (Connectors Devices, Inc.)

Documents

PCB layout

B 204

Tape & reel packaging

VG45.1M500

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Brass
Brass
PTFE

Plating

AuroDur®, gold plated
AuroDur®, gold plated

Technical Data Sheet				Rosenberger			
Mini-SMP		Straight Plug PCB Smooth Bore		18S141-40ML5			
Electrical data							
Impedance		50 Ω					
Frequency		DC to 65 GHz					
Return loss		≥ 26 dB, DC to 12 GHz					
		≥ 20 dB, 12 GHz to 16 GHz					
		≥ 10 dB, 16 GHz to 26 GHz					
Insertion loss		≤ 0.05 x √f(GHz) dB					
Insulation resistance		≥ 5 GΩ					
Center contact resistance		≤ 6.0 mΩ					
Outer contact resistance		≤ 2.0 mΩ					
Working voltage (at sea level)		325 V rms					
(at 70000 feet)		125 V rms					
- VSWR in application depends decisive on PCB layout -							
Mechanical data							
Mating cycles		≥ 100					
Center contact captivation		≥ 5 N					
Engagement force							
- smooth bore		11 N typical					
Disengagement force							
- smooth bore		11 N typical					
Environmental data							
Temperature range		-55°C to +155°C					
Thermal shock		MIL-STD-202, Method 107, Condition B					
Vibration		MIL-STD-202, Method 204, Condition A					
Shock		MIL-STD-202, Method 213, Condition A					
Moisture resistance		MIL-STD-202, Method 106					
Climatic Category		IEC 60068 55/155/21					
Max. soldering temperature		IEC 61760-1, +260°C for 10 sec.					
RoHS		compliant					
Tooling							
		N/A					
Suitable cables							
		N/A					
Weight							
Weight		0.2 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. For the installation of the electrotechnical equipment, particular electrotechnical expertise is required. 							
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Rong Fang	17.07.06	Chr. Janßen	21.10.20	f00	20-1927	S. Huber-Siegl	21.10.20
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de				Tel. : +49 8684 18-0 Email : info@rosenberger.de			Page 2 / 2

Mouser Electronics

Authorized Distributor

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

[Rosenberger:](#)

[18S141-40ML5](#)