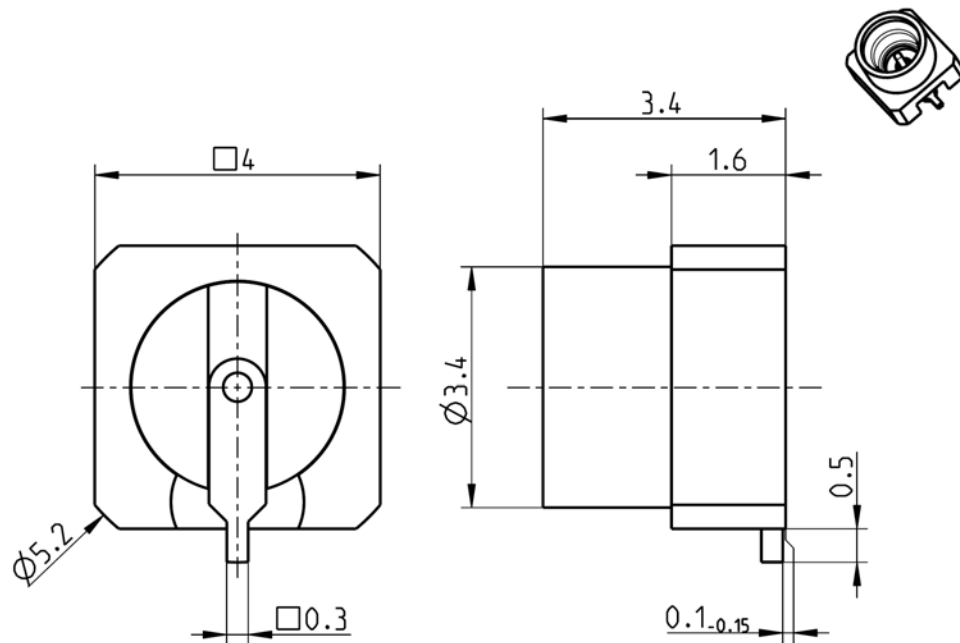




All dimensions are in mm; tolerances acc. ISO 2768 m-H

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

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	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 6.0 m Ω
Outer contact resistance	≤ 2.0 m Ω
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.

Draft	Date	Approved	Date	Rev	Engineering change number	Name	Date
Rong Fang	17/07/06	B. Aicher	03.03.16	e00	15-1674	Fl. Öllerer	03.03.16
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