



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



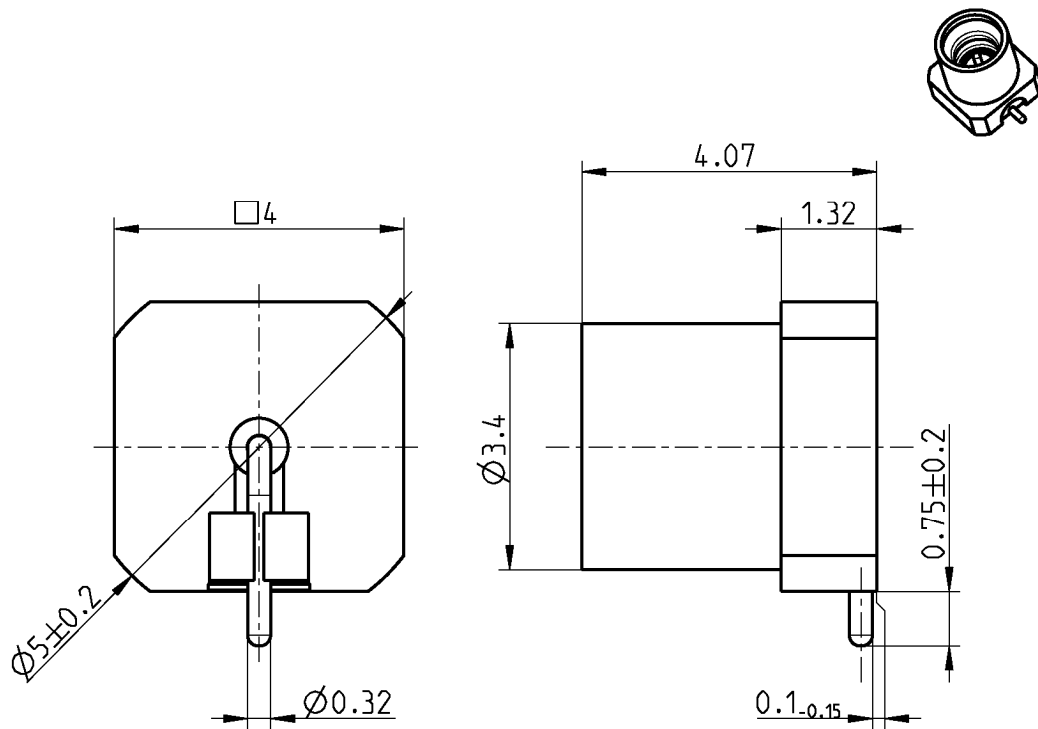
## Contact us

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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 209

Tape & reel packaging

VG45.1M500

#### Material and plating

##### Connector parts

Center contact  
Outer contact  
Dielectric

##### Material

CuBe  
Brass  
PEEK

##### Plating

AuroDur®, gold plated  
AuroDur®, gold plated

Mini SMP STRAIGHT PLUG PCB  
SMOOTH BORE**18S142-40ML5****Electrical data**

Impedance	50 $\Omega$
Frequency	DC to 65 GHz
Return loss	$\geq 19$ dB, DC to 26.5 GHz $\geq 13$ dB, 26.5 to 40 GHz $\geq 9$ dB, 40 to 65 GHz
Insertion loss	$\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 5 \text{ G}\Omega$
Center contact resistance	$\leq 6.0 \text{ m}\Omega$
Outer contact resistance	$\leq 2.0 \text{ m}\Omega$
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	$\geq 100$
Center contact captivation	$\geq 5 \text{ N}$
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 0.3 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
Gramsamer Sepp	29/08/05	B. Aicher	03.03.16	f00	15-1674	Fl. Öllerer	03.03.16
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>					Tel.: +49 8684 18-0 email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>		Page 2 / 2