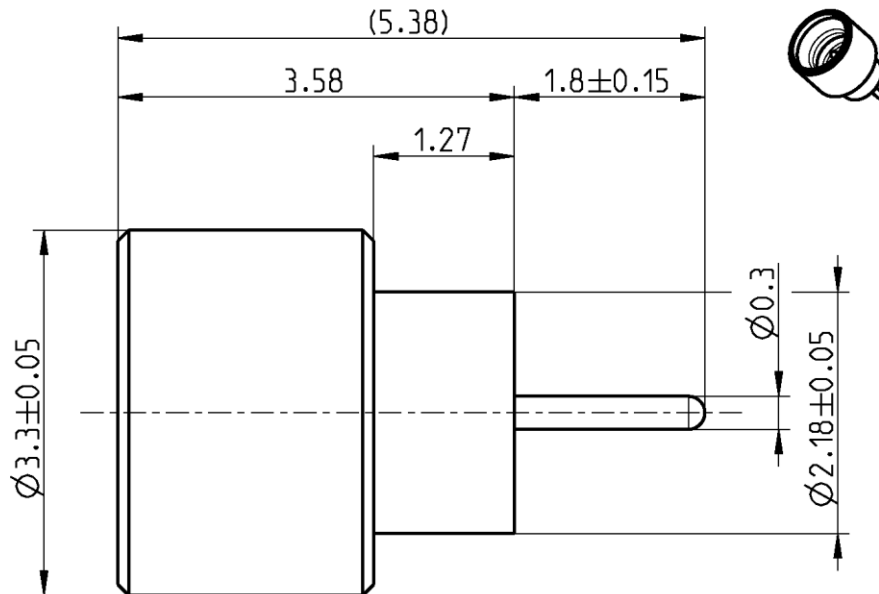


Mini-SMP

Bulkhead Plug
Hermetic Sealed /
Full Detent

18S101-5H0E4



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

Assembly instruction

18 D

Material and plating

Connector parts

- Center contact
- Outer contact
- Dielectric

Material

- Kovar per ASTM F 15-78
- Corning 7070 glass

Plating

- Gold, min. 0.8 µm, over nickel
- Gold, min. 0.8 µm, over nickel

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RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

Mini-SMP

Bulkhead Plug
Hermetic Sealed /
Full Detent

18S101-5H0E4

Electrical data

Impedance	50 Ω
Frequency	DC to 65 GHz
Return loss	≥ 26 dB, DC to 6 GHz ≥ 17 dB, 6 to 18 GHz ≥ 12 dB, 18 to 40 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

Mechanical data

Mating cycles	≥ 100
Center contact captivation	≥ 5 N
Engagement force	
- full detent	19 N typical
Disengagement force	
- full detent	29 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
Soldering temperature	250°C max.
Leakage rate	≤ 10 ⁻⁸ mbar x l/s
Pressure	2 N/mm ² max.
RoHS	compliant

Tooling

N/A

Suitable cables

N/A

Weight

Weight 0.1 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
Inge Mühlauer	14.12.04	L. Bombik	26.09.2023	i00	23-0004	S. Hofmeister	26.09.2023
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							Page
							2 / 2