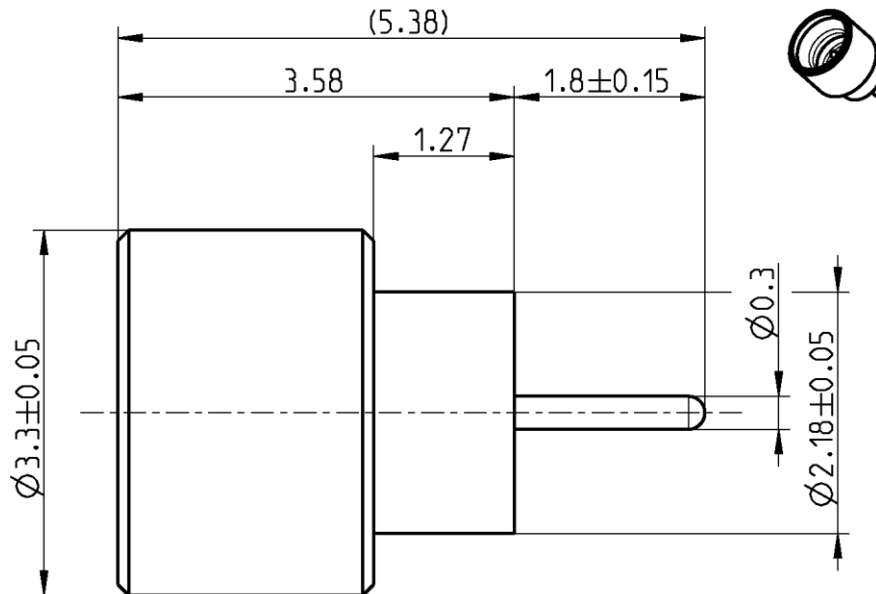


Mini-SMP
Bulkhead Plug
Hermetic Sealed /
Full Detent

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

Plating

Kovar per ASTM F 15-78 Gold, min. 0.8 µm, over chemical nickel
Kovar per ASTM F 15-78 Gold, min. 0.8 µm, over chemical nickel
Corning 7070 glass

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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/mm² 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.



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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Inge Mühlauer	14.12.04	Chr. Janßen	21.10.20	h00	20-1927	S. Huber-Siegl	21.10.20

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