

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!



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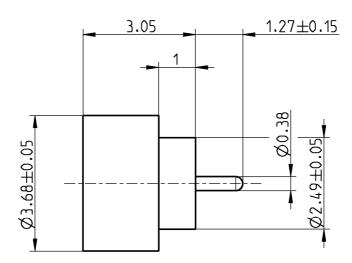






Rosenberger TECHNICAL DATA SHEET **BULKHEAD PLUG SMP** 19S181-5H0E4 **FULL DETENT**





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

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According to

MIL-STD-348

Documents

Assembly instruction

19 G

Material and plating

Connector parts

Center contact Outer contact Dielectric

Material

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

Plating

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

RF_35/12.04/3.0

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TECHNICAL DATA SHEET

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SMP

BULKHEAD PLUG FULL DETENT

19S181-5H0E4

Electrical data

Impedance 50 Ω

Frequency DC to 26.5 GHz Return loss \geq 23 dB, DC to 18 GHz

Insertion loss $\leq 0.05 \text{ x} \sqrt{\text{f(GHz)}}$ dB, DC to 18 GHz

 $\begin{array}{ll} \text{Insulation resistance} & \geq 5 \text{ } G\Omega \\ \text{Center contact resistance} & \leq 6.0 \text{ } m\Omega \\ \text{Outer contact resistance} & \leq 2.0 \text{ } m\Omega \\ \text{Test voltage} & 500 \text{ } V \text{ } rms \\ \text{Working voltage} & 335 \text{ } V \text{ } rms \\ \text{Contact Current} & 1.2 \text{ } D\text{C max}. \end{array}$

Mechanical data

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Engagement force

- full detent 68 N max.

Disengagement force

- full detent 22 N min.

Environmental data

Temperature range -65°C to +155°C

Thermal shock MIL-STD-202, Method 107, Condition B Vibration MIL-STD-202, Method 204, Condition B Shock MIL-STD-202, Method 213, Condition A

Moisture resistance MIL-STD-202, Method 106

 $\begin{array}{lll} \mbox{Soldering temperature} & 250\mbox{°C max.} \\ \mbox{Leakage rate} & \leq 10^{-8}\mbox{ mbar x l/s} \\ \mbox{Pressure} & 2\mbox{ N/mm}^2\mbox{ max.} \\ \mbox{RoHS} & \mbox{compliant} \end{array}$

Tooling

N/A

Suitable cables

www.rosenberger.de

N/A

Weight

Weight 0.09 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
Inge Mühlauer 15/02/05 J_Krautenbacher 15.07.16				e00	15-1629	I_Wallner	15.07.16	
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