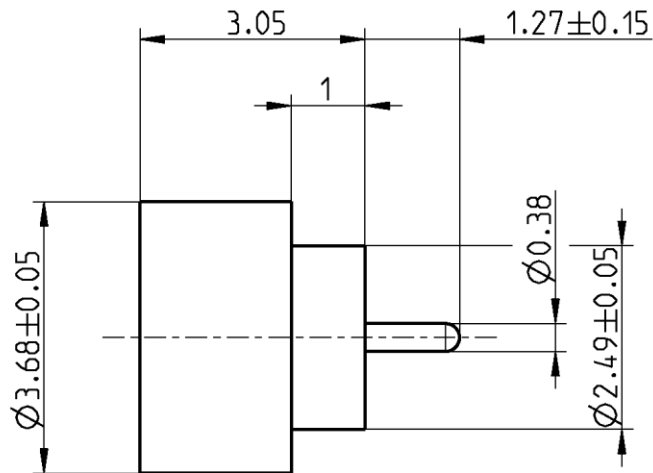




**THE DATASHEET OF
19S181-5H0E4**





All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to MIL-STD-348

Documents

Assembly instruction 19 G

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Plating

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

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RF_35/09.14/6.2

Technical Data Sheet

Rosenberger

SMP

Bulkhead Plug
Full Detent

19S181-5H0E4

Electrical data

| | |
|---------------------------|----------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 26.5 GHz |
| Return loss | ≥ 23 dB, DC to 18 GHz |
| Insertion loss | ≤ 0.05 x √f(GHz)dB, DC to 18 GHz |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 6.0 mΩ |
| Outer contact resistance | ≤ 2.0 mΩ |
| Test voltage | 500 V rms |
| Working voltage | 335 V rms |
| Contact Current | 1.2A DC max. |

Mechanical data

| | |
|----------------------------|-----------|
| Mating cycles | ≥ 100 |
| Center contact captivation | ≥ 7 N |
| 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 |
| 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 0.09 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.



For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.






| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|--|----------|-----------|----------|------|---------------------------|--|---------------|
| Inge Mühlauer | 15.02.05 | L. Bombik | 11.08.23 | g00 | 23-0004 | S. Schier | 11.08.23 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de | | | | | | Tel. : +49 8684 18-0 Email : info@rosenberger.de | |
| | | | | | | | Page 2 / 2 |

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