



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

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



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