



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

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

##### Plating

# 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 <sup>-8</sup> mbar x l/s
Pressure	2 N/mm <sup>2</sup> max.
RoHS	compliant

## Tooling

N/A

## Suitable cables

N/A

## Weight

Weight	0.09 g/pce
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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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Inge Mühlauer	15.02.05	Chr. Janßen	29.10.20	f00	20-1927	S. Huber-Siegl	29.10.20

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