



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

**Interface**

According to MIL-STD-348

**Documents**

PCB layout B 122  
Tape & reel packaging VG276.84000

**Material and plating**

**Connector parts**

|                |       |
|----------------|-------|
| Center contact | Brass |
| Outer contact  | Brass |
| Dielectric     | LCP   |

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated

# Technical Data Sheet

# Rosenberger

SMP

Straight Plug PCB  
Limited Detent

19S103-400L5

## Electrical data

|                           |  |
|---------------------------|--|
| Impedance                 | 50 Ω   |
| Frequency                 | DC to 26.5 GHz                               |
| Return loss               | ≥ 26 dB, DC to 6 GHz<br>≥ 20 dB, 6 to 12 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                                     |
| Test voltage              | 500 V rms                                    |
| Working voltage           | 335 V rms                                    |
| Contact Current           | 1.2A DC max.                                 |

- VSWR in application depends decisive on PCB layout -

## Mechanical data

|                            |           |
|----------------------------|-----------|
| Mating cycles              | ≥ 500     |
| Center contact captivation | ≥ 7 N     |
| Engagement force           |           |
| - limited detent           | 45 N max. |
| Disengagement force        |           |
| - limited detent           | 9 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              |
| Max. soldering temperature | IEC 61760-1, +260°C for 10 sec.      |
| RoHS                       | compliant                            |

## Tooling

N/A

## Suitable cables

N/A

## Weight

Weight 0.5 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          |
|--|----------|-------------|----------|------|---------------------------|--|---------------|
| König A.   | 10.07.07 | Chr. Janßen | 27.10.20 | d00  | 20-1927                   | S. Huber-Siegl   | 27.10.20      |
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