



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

Interface

According to

Rosenberger P-SMP

Documents

Panel piercing
Tape & reel packaging

B 120b
VG163-01M00

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Brass
Brass
PEEK

Plating

AuroDur®, gold plated
AuroDur®, gold plated

Electrical data

| | |
|---|---|
| Impedance | 50 Ω |
| Frequency | DC to 10 GHz |
| Return loss | ≥ 30 dB, DC to 4 GHz ≥ 25 dB, 4 to 6 GHz |
| Insertion loss | ≤ 0.03 x √f(GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 3.0 mΩ |
| Outer contact resistance | ≤ 2.0 mΩ |
| Test voltage (at sea level) | 1000 V rms |
| Working voltage (at sea level) | 480 V rms |
| Power handling (at 20 °C, sea level) | ≤ 200 W @ 2.2 GHz |
| Intermodulation (3 rd order) | ≥ 160 dBc (2 x 43 dBm) |

- Connector only, VSWR in application depends decisive on PCB layout

Mechanical data

| | |
|----------------------------|------------|
| Mating cycles | ≥ 1000 |
| Center contact captivation | ≥ 7 N |
| Engagement force | 10 N max. |
| Disengagement force | 2.2 N min. |

Environmental data

| | |
|-----------------------------|---|
| Temperature range | -65°C to +165°C |
| Rapid change of temperature | IEC 60169-1, Sub-clause 16.4 (-65°C to +165°C) |
| Vibration | IEC 60068-2-64 random |
| Shock | IEC 60068-2-27 (half-sine) |
| High temperature endurance | IEC 60169-1, Sub-clause 18 (+165°C, 1000 hours) |
| Max. soldering temperature | IEC 61760-1, +260°C for 10 sec. |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

| | |
|--------|-----------|
| Weight | 1.01 g/pc |
|--------|-----------|

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 |
|--|----------|----------|----------|------|--|-----------|---------------|
| Huppenberger | 18.12.09 | Sa. K. | 11.03.14 | h00 | 14-0352 | T. Krojer | 11.03.14 |
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