



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

Interface

| | | |
|--------------|-----------|---|
| According to | SMB side: | IEC 60169-10, CECC 22130, US MIL-C-39012 |
| | SMA side: | IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310 |

Documents

N/A

Material and plating

Connector parts

| | Material | Plating |
|------------------------|------------------|----------------------|
| Center contact | Beryllium copper | AuroDur. gold plated |
| Outer contact SMB side | Brass | AuroDur. gold plated |
| Outer contact SMA side | Beryllium copper | AuroDur. gold plated |
| Body | Beryllium copper | AuroDur. gold plated |
| Dielectric | PTFE | |
| Gasket | Silicone | |
| Coupling nut SMA side | Brass | Gold, 0.1 µm min. |

**ADAPTOR
SMB PLUG – SMA PLUG****59S132-S00L5****Electrical data**

| | | |
|---------------------------|---|--------------------------------|
| Impedance | 50 Ω | |
| Frequency | DC to 4 GHz | |
| Return loss | ≥ 35 dB, DC to 1 GHz ≥ 27 dB, 1 to 4 GHz | |
| Insertion loss | $\leq 0.05 \times \sqrt{f(\text{GHz})}$ dB | |
| Insulation resistance | $\geq 1 \times 10^3$ M Ω | |
| Center contact resistance | ≤ 5 m Ω , SMB side | ≤ 3 m Ω , SMA side |
| Outer contact resistance | ≤ 2.5 m Ω , SMB side | ≤ 2 m Ω , SMA side |
| Test voltage | 750 V rms, 50 Hz, at sea level | |
| Working voltage | ≤ 250 V rms, 50 Hz, at sea level | |
| Contact current | 1.5 A DC typ. | |
| RF-leakage | ≥ 55 dB up to 1 GHz | |

Mechanical data

| | | |
|-----------------------------------|-----------------------|--------------|
| | SMB side | SMA side |
| Mating cycles | min. 500 | min. 500 |
| Coupling nut retention | N/A | ≥ 180 N |
| Coupling test torque | N/A | max. 0.6 Nm |
| Recommended torque | N/A | 0.5 Nm |
| Center contact captivation: axial | ≥ 10 N | ≥ 10 N |
| Engagement force | ≤ 63 N | N/A |
| Disengagement force | 8 N min. to 63 N max. | N/A |

Environmental data

| | |
|---------------------|---------------------------------|
| Temperature range | -55°C to +155°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

Weight 5.9 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.

| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
|--|----------|-------------------|----------|------|--|-----------|---------------|
| Inge Mühlauer | 14/12/04 | Sa. Krautenbacher | 20.03.14 | e00 | 14-0352 | T. Krojer | 20.03.14 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de | | | | | Tel.: +49 8684 18-0 Fax: +49 8684 18-499 email: info@rosenberger.de | | Page 2 / 2 |