



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

Interface

According to Rosenberger 32RS000-000, series reverse SMA
Derived from IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310
Compliant with FCC standard (part 15; section 15.203)

Documents

Assembly instruction 32 B5

Material and plating

Connector parts

| | Material | Plating |
|------------------|------------------|----------------------|
| Center contact | Beryllium copper | AuroDur, gold plated |
| Outer contact | Brass | AuroDur, gold plated |
| Dielectric | PTFE | |
| Gasket | Silicone | |
| Coupling nut | Brass | Gold, 0.1 µm min. |
| Crimping ferrule | Copper | AuroDur, gold plated |

Reverse SMA STRAIGHT PLUG REVERSE POLARITY

32RS147-302L5

Electrical data

| | |
|--|-------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 12.4 GHz |
| VSWR | ≤ 1.05 + 0.01 x f [GHz] |
| Insertion loss | ≤ 0.05 x √f(GHz) dB |
| Insulation resistance | ≥ 5 x10 ³ MΩ |
| Center contact resistance | ≤ 3 mΩ |
| Outer contact resistance | ≤ 2 mΩ |
| Test voltage | 1000 V rms |
| Working voltage | 480 V rms |
| Power handling (at 20 °C, sea level, VSWR 1.0) | ≤ 200 W @ 2 GHz |
| RF-leakage | ≥ 100 dB up to 1 GHz |

- Limitations are possible due to the used cable type -

Mechanical data

| | |
|-----------------------------------|-------------|
| Mating cycles | min. 100 |
| Coupling nut retention | ≥ 180 N |
| Center contact captivation: axial | ≥ 27 N |
| Coupling test torque | max. 0.6 Nm |
| Recommended torque | 0.5 Nm |

Environmental data

| | |
|---------------------|---------------------------------|
| Temperature range | -65°C to +165°C |
| Thermal shock | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101, Cond. B |
| Vibration | MIL-STD-202, Meth. 204, Cond. D |
| Shock | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| RoHS | compliant |

Tooling

| | |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert | 11W150-102 |

Suitable cables

RG 174 A/U, RG 188 A/U, RG 316 /U

Weight

| | |
|--------|-----------|
| Weight | 3.2 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 |
|--|----------|-------------------|----------|------|---------------------------|--|----------|
| Gramsamer Sepp | 22/02/05 | Sa. Krautenbacher | 14.03.14 | d00 | 14-0352 | T. Krojer | 14.03.14 |
| 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 | |