



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

Interface

| | | |
|--------------|-----------|---|
| According to | SMC side: | IEC 60169-9, CECC 22140, 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 | CuBe | AuroDur®, gold plated |
| Outer contact SMC side | Brass | AuroDur®, gold plated |
| Outer contact SMA side | CuBe | AuroDur®, gold plated |
| Dielectric | PTFE | |
| Coupling nut SMA side | CuBe or equiv. | Gold, 0.1 μm |
| Gasket | Silicone | |

Electrical data

| | |
|---------------------------|--|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| Return loss | ≥ 35 dB, DC to 1 GHz ≥ 30 dB, 1 to 3 GHz ≥ 20 dB, 3 to 6 GHz |
| Insertion loss | ≤ 0.05 x √f(GHz) dB |
| Insulation resistance | ≥ 1x10 ³ MΩ |
| Center contact resistance | ≤ 5 mΩ, SMC side ≤ 3 mΩ, SMA side |
| Outer contact resistance | ≤ 2.5 mΩ, SMC side ≤ 2 mΩ, SMA side |
| Test voltage | 750 V rms, 50 Hz, at sea level |
| Working voltage | ≤ 250 V rms, 50 Hz, at sea level |
| RF-leakag | ≥ 90 dB up to 1 GHz |

Mechanical data

| | | |
|-----------------------------------|--------------------|------------------|
| | SMC side | SMA side |
| Mating cycles | min. 500 | min. 500 |
| Coupling nut retention | N/A | ≥ 270 N |
| Coupling test torque | max. 0.71 Nm | max. 1.7 Nm |
| Recommended torque | 0.25 Nm to 0.35 Nm | 0.8 Nm to 1.1 Nm |
| Center contact captivation: axial | ≥ 10 N | ≥ 10 N |

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. D |
| Moisture resistance | MIL-STD-202, Meth. 106 |
| Corrosion | MIL-STD-202, Meth. 101, Cond B |

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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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|--|----------|-------------|----------|------|--|----------------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| Inge Mühlauer | 21.12.04 | Chr. Janßen | 23.11.20 | e00 | 20-1927 | S. Huber-Siegl | 23.11.20 |
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