



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

**Interface**

According to IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
Coupling nut  
Gasket  
Substrate

**Material**

Brass  
Brass  
PTFE  
Brass  
Silicone  
Al<sub>2</sub>O<sub>3</sub>

**Plating**

Gold, min. 1.27 µm, over nickel  
Gold, min. 0.8 µm, over nickel  
Gold, min. 0.15 µm, over chemical nickel

**Electrical data**

|                           |  |
|---------------------------|--|
| Impedance                 | 50 Ω ± 5%  |
| Frequency                 | DC to 18 GHz   |
| Return loss               | ≥ 28.3 dB, DC to 4 GHz<br>≥ 26.4 dB, 4 GHz to 6 GHz<br>≥ 24.3 dB, 6 GHz to 10 GHz<br>≥ 23.1 dB, 10 GHz to 12.4 GHz<br>≥ 22.1 dB, 12.4 GHz to 14 GHz<br>≥ 19.1 dB, 14 GHz to 18 GHz |
| Center contact resistance | ≤ 3 mΩ   |
| Outer contact resistance  | ≤ 2 mΩ   |
| Impulse Power (1μs, 1%)   | 100 Watts at 25°C environment temperature  |
| Power handling            | 1 W at 25°C<br>derated linearity to 0 Watts at 125°C   |

**Mechanical data**

|                        |                  |
|------------------------|------------------|
| Mating cycles          | ≥ 500            |
| Coupling nut retention | ≥ 270 N          |
| Coupling test torque   | max. 1.7 Nm      |
| Recommended torque     | 0.8 Nm to 1.1 Nm |

**Environmental data**

|                   |                 |
|-------------------|-----------------|
| Temperature range | -55°C to +155°C |
|-------------------|-----------------|

**Tooling**

N/A

**Suitable cables**

N/A

**Packing**

|          |                    |
|----------|--------------------|
| Standard | 100 pcs in blister |
| Weight   | 3.4 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          |
|--|----------|------------|----------|--|---------------------------|---------------|---------------|
| Kerstin Herzog   | 14/02/05 | Frank Weiß | 16/06/05 | a00  | 04-0130                   | Siegmar Hoyer | 15/03/05      |
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