



All dimensions are in mm

**Interface**

According to RN\_108-02

**Documents**

PCB layout MB\_616  
T&R packaging VG408.25000

**Material and plating**

**Connector parts**

| Connector parts           | Material   |
|---------------------------|------------|
| Center contact            | Bronze     |
| - Interface               |            |
| - PCB                     |            |
| Outer contact (Interface) | Bronze     |
| Outer contact (PCB)       | Zinc alloy |
| Dielectric                | LCP        |
| Housing                   | HTN        |

**Plating**

Gold, min. 0.15  $\mu$ m, over nickel  
Tin, min. 0.5  $\mu$ m, over nickel  
Tin, min. 1.5  $\mu$ m  
Tin, min. 2  $\mu$ m

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**Electrical data**

|                           |  |
|---------------------------|--|
| Impedance                 | 50 Ω   |
| Frequency                 | DC to 9 GHz  |
| Return loss               | ≥ 25 dB, DC to ≤ 3 GHz<br>≥ 20 dB, > 3 GHz to ≤ 6 GHz<br>≥ 12 dB, > 6 GHz to ≤ 9 GHz |
| Insertion loss            | ≤ 0.1 x √f(GHz)dB  |
| Insulation resistance     | ≥ 1x10 <sup>3</sup> MΩ   |
| Center contact resistance | ≤ 15 mΩ  |
| Outer contact resistance  | ≤ 5 mΩ   |
| Test voltage              | ≤ 800 V rms  |
| Working voltage           | ≤ 60 V DC  |
| Power current             | ≤ 1 A DC   |
| Cross talk (optional)     | ≤ -60 dB up to 10 GHz  |

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

**Mechanical data**

|                       |         |
|-----------------------|---------|
| Mating cycles         | ≥ 25    |
| Engagement force      | ≤ 30 N* |
| Disengagement force   | ≥ 5 N   |
| Retention force latch | ≥ 110 N |
| Coding efficiency     | ≥ 150 N |
| Weight                | 4.7 g   |

\* according to USCAR 25 Rev. 3, tests specified in USCAR 17 Rev. 5 TG-G

**Environmental data**

|                                |   |
|--------------------------------|---|
| Temperature range              | -40 °C to +105 °C                               |
| Thermal shock                  | ISO 20860-2 clause 9.2                          |
| Temperature and humidity       | ISO 20860-2 clause 9.3                          |
| Vibration and mechanical shock | ISO 20860-2 clause 9.1                          |
| Dry heat                       | ISO 20860-2 clause 9.4                          |
| Soldering profile              | acc. to IEC 60068-2-58; Group 3 (250 °C / 30 s) |
| RoHS                           | compliant                                       |

**Packing**

|          |  |
|----------|--|
| Standard | 2.000 pcs (250 pcs in tape & reel, 8 reels in box) |
|----------|--|

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