



All dimensions are in mm

**Interface**

According to RN 108-02

**Documents**

PCB layout MB\_929  
T&R packaging VG411.18500

**Material and plating**

**Connector parts**

Center contact  
Outer contact (Interface)  
Outer contact (PCB)  
Dielectric  
Housing

**Material**

Brass  
Bronze  
Zinc alloy  
LCP  
HTN

**Plating**

AuroDur®, gold plated, 0.15  $\mu\text{m}$   
Tin, min. 1.5  $\mu\text{m}$   
Tin, min. 2  $\mu\text{m}$

**Preliminary**

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**Electrical data**

Impedance	50 Ω
Frequency	DC to 9 GHz
Return loss	≥ 25 dB, DC to ≤ 3 GHz ≥ 20 dB, > 3 GHz to ≤ 6 GHz ≥ 12 dB, > 6 GHz to ≤ 9 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 1x10 <sup>3</sup> MΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	≤ 800 V rms
Working voltage	≤ 60 V rms
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	3.0 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	185 pcs in tape & reel
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