



All dimensions are in mm

**Interface**

According to RN\_108-04

**Documents**

PCB layout MB\_604  
Tape & Reel packaging VG461.18500

**Material and plating**

**Connector parts**

Center contact

- Interface

- PCB

Outer contact (Interface)

Outer contact (PCB)

Outer contact sheet

Dielectric

Housing

**Material**

Bronze

Bronze

Zinc alloy

Bronze

LCP

HTN

**Plating**

Gold, min. 0.15 µm, over chemical nickel

Tin, min. 0.5 µm, over chemical nickel

Tin, min. 1.5 µm

Tin, min. 2 µm

Tin, min. 3 µm

**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 √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	≤ 45 N*
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 150 N

\* according to USCAR 25 Rev. 3 and the 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
Weight	7.63 g

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