



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 ³ 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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