



All dimensions are in mm

**Interface**

According to ISO 20860-1

**Documents**

PCB layout MB\_495  
Packing VG457.20000 (b)

**Material and plating**

**Connector parts**

Connector parts	Material	Plating
Center contact	Brass	AuroDur®, gold plated
Outer contact	Brass	tin, min. 3 µm
Dielectric	HTN	
Seal	VMQ	
Protection cap	HTN	traffic purple

FAKRA-HF

STRAIGHT PLUG  
for PCB

**59S13X-40MT5**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB, DC to 1 GHz
Insertion loss	≤ 0.1 x √f(GHz)dB
Insulation resistance	≥ 1x10 <sup>3</sup> MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	500 V rms
Working voltage	≤ 60 V DC (b)
Power current	≤ 1 A DC

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

**Mechanical data**

Mating cycles	≥ 25
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**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. IEC 60068-2-58 Group 3 (250°C / 30s)
Water tightness	IP X7
RoHS	compliant

**Packing**

Standard	200 pcs. in tape & reel (b)
Weight	~1.0 g

**Change History**

Rev.	Date	Change
c00	20.01.22	- Dimension changed from 5,59±0,1 to 5,5±0,1
b00	27.05.21	Packing - Changed from VG296.22000 to VG457.200000. - Standard changed from 220 pcs. In tape & reel to 200 pcs. In tape & reel. Electrical data - Working voltage from 335 V rms to ≤ 60 V DC Drawing - Added dimension 2±0,05 - Added naming "O-Ring 3,5x1 according to DIN ISO 3601-N-B"

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
N. Naus	04.07.14	F. Bachmeier	20.01.22	c00	22-0108	G. Watat	20.01.22