**Technical Data Sheet**

**FAKRA HF**

**RIGHT ANGLE PLUG FOR PCB**

**59S2MB-40MT5-Y**

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**Interface**

According to

ISO 20860-1, USCAR 17

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**Documents**

PCB layout

MB_447

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**Material and plating**

**Connector parts**

<table>
<thead>
<tr>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center contact</td>
<td>Brass</td>
</tr>
<tr>
<td>Outer contact</td>
<td>Zinc alloy</td>
</tr>
<tr>
<td>Dielectric</td>
<td>HTN</td>
</tr>
<tr>
<td>Housing</td>
<td>HTN</td>
</tr>
</tbody>
</table>

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All dimensions are in mm; tolerances according to ISO 2768 m-H

Y = Part number has to be accomplished by codification

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## Technical Data Sheet

### FAKRA HF
**RIGHT ANGLE PLUG FOR PCB**

### Electrical data

- **Impedance**: 50 Ω
- **Frequency**: DC to 6GHz
- **Return loss measured on 50Ω footprint**:
  - ≥ 24dB (DC to 2.4GHz)
  - ≥ 16dB (2.4GHz to 4GHz)
  - ≥ 13dB (4GHz to 6GHz)
- **Insertion loss**: ≤ 0.1 x \( \sqrt{f(\text{GHz})} \) dB
- **Insulation resistance**: ≥ 1x10^3 MΩ
- **Center contact resistance**: ≤ 5 mΩ
- **Outer contact resistance**: ≤ 5 mΩ
- **Test voltage**: 750 V rms
- **Working voltage**: 335 V rms
- **Power current**: ≤ 1 A DC

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

### Mechanical data

- **Mating cycles**: ≥ 25
- **Engagement force**: ≤ 40 N
- **Disengagement force**: ≥ 2 N
- **Retention force plastic housing**: ≥ 110 N
- **Coding efficiency**: ≥ 40 N

### Environmental data

- **Temperature range**: -40°C to 105°C
- **Thermal shock**: DIN 72594-2 – Test group 8.2
- **Temperature and humidity**: DIN 72594-2 – Test group 8.3
- **Vibration and mechanical shock**: DIN 72594-2 – Test group 8.1
- **Dry heat**: DIN 72594-2 – Test group 8.4
- **Soldering profile**: tbd
- **RoHS**: compliant

### Tooling

- **N/A**

### Packing

- **Standard**: 200 pcs in tape and reel
- **Weight**: 6.65 g/pce
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