



RPC-2.40 Straight Jack PCB  
Economic Solderless  
Connector

**09K721-40MS3**

**Electrical data**

|                           |   |
|---------------------------|---|
| Impedance                 | 50 Ω  |
| Frequency                 | DC to 50 GHz  |
| Return loss               | ≥ 26 dB, DC to 26.5 GHz<br>≥ 21 dB, 26.5 GHz to 40 GHz<br>≥ 17.5 dB, 40 GHz to 50 GHz |
| Insertion loss            | ≤ 0.05 x √f(GHz) dB   |
| Insulation resistance     | ≥ 5 GΩ  |
| Center contact resistance | ≤ 4.0 mΩ  |
| Outer contact resistance  | ≤ 2.5 mΩ  |
| Test voltage              | 500 V rms   |
| Working voltage           | 150 V rms   |

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

**Mechanical data**

|                                   |                    |
|-----------------------------------|--------------------|
| Mating cycles                     | ≥ 500              |
| Mating Force PCB side             | ≤ 23 N             |
| Center contact captivation: axial | ≥ 20 N             |
| Coupling test torque              | 1.65 Nm            |
| Recommended torque                | 0.80 Nm to 1.10 Nm |

**Environmental data**

|                             |                               |
|-----------------------------|-------------------------------|
| Storage temperature range   | -40°C to +85°C                |
| Operating temperature range | -0°C to +85°C                 |
| Thermal shock               | IEC 61169-1, Subclause 9.4.4  |
| Corrosion                   | IEC 61169-1, Subclause 9.4.6  |
| Vibration                   | IEC 61169-1, Subclause 9.3.3  |
| Shock                       | IEC 61169-1, Subclause 9.3.14 |
| Moisture resistance         | IEC 61169-1, Subclause 9.4.3  |
| RoHS                        | compliant                     |

**Accessories**

|  |                            |
|--|----------------------------|
| Available Screws DIN 7985-H-A2 UNF 0-80 (cylinder head screw) for different PCB thickness. |                            |
| 3/16" length = Standard (already included with the connector)                              | DIN7985-H-A2 UNF 0-80x3/16 |
| 1/4" length = Optional (PCB thickness min. 1.2 mm to max. 4.2 mm)                          | DIN7985-H-A2 UNF 0-80x1/4  |
| 5/16" length = Optional (PCB thickness min. 2.8 mm to max. 5.7 mm)                         | DIN7985-H-A2 UNF 0-80x5/16 |
| 3/8" length = Optional (PCB thickness min. 4.4 mm to max. 7.4 mm)                          | DIN7985-H-A2 UNF 0-80x3/8  |
| 7/16" length = Optional (PCB thickness min. 6.0 mm to max. 8.9 mm)                         | DIN7985-H-A2 UNF 0-80x7/16 |

**Tooling**

N/A

**Weight**

2.3 g/pce

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     |
| Martin Moder | 21.01.16 | Herbert Babinger | 04.06.18 | a00  | 18-s200                   | N. Topcagic | 04.06.18 |

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