



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

Interface

According to IEC 61169-35
Mechanically compatible with RPC-3.50 and SMA

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric

Material

Beryllium copper
Stainless steel
Stainless steel
TPX

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated

Technical Data Sheet**Rosenberger**

RPC-2.92

ADAPTOR
PLUG - JACK**02S121-K0BS3****Electrical data**

| | |
|-----------------------|------------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 43.5 GHz |
| Return loss | ≥ 19 dB, DC to 43.5 GHz |
| Insertion loss | ≤ 0.04 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance | ≥ 5 GΩ |
| Test voltage | 750 V rms |
| Working voltage | 250 V rms |
| RF-leakage | ≥ 100 dB up to 1 GHz |

Mechanical data

| | |
|----------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation | ≥ 20 N |
| Coupling test torque | 1.70 Nm |
| Recommended torque | 0.80 Nm to 1.10 Nm |

Environmental data

| | |
|---------------------|--------------------------------------|
| Temperature range | -40°C to +125°C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition D |
| Shock | MIL-STD-202, Method 213, Condition I |
| Moisture resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

5.3 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 |
|--|----------|-------------|----------|------|---------------------------|--|---------------|
| S. Andorfer | 09.07.20 | H. Babinger | 03.02.22 | 200 | 22-v023 | A. Youmsi | 03.02.22 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de | | | | | | Tel.: +49 8684 18-0 Email: info@rosenberger.de | |
| | | | | | | | Page 2 / 2 |