



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

Interface

RPC-3.50 according to
RPC-3.50 mechanically compatible with
RPC-TNC according to

IEC 60169-23
RPC-2.92 and SMA
IEC 60169-26

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Flange
Dielectric 1
Dielectric 2

Material

Beryllium copper
Stainless steel
Brass
PPE
PTFE

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Flash white bronze over silver(e.g. Optargen®)

FLOATING ADAPTOR
RPC-3.50 JACK – RPC-TNC PLUG

03K706-S24S3

Electrical data

| | |
|------------------------------------|---------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 18 GHz |
| Return loss | ≥ 35 dB, DC to 2.5 GHz |
| Return loss | ≥ 25 dB, 2.5 GHz to 6 GHz |
| Return loss | ≥ 20 dB, 6 GHz to 16 GHz |
| Return loss | ≥ 17 dB, 16 GHz to 18 GHz |
| Insertion loss | ≤ 0.05 x √f(GHz) dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance RPC-3.50 | ≤ 3.0 mΩ |
| Outer contact resistance RPC-3.50 | ≤ 2.0 mΩ |
| Center contact resistance RPC-TNC | ≤ 1.5 mΩ |
| Outer contact resistance RPC-TNC | ≤ 1.0 mΩ |
| Test voltage | 1000 V rms |
| Working voltage | 335 V rms |

Mechanical data

| | |
|-------------------------------|--|
| Mating cycles RPC-3.50 | ≥ 500 |
| Mating cycles RPC-TNC | ≥ 1000 |
| Center contact captivation | ≥ 27 N |
| Coupling test torque RPC-3.50 | 1.70 Nm |
| Recommended torque RPC-3.50 | 0.80 Nm to 1.10 Nm |
| Misalignment: radial | 0.7 mm min. |
| Spring force | min. 33 N at rest max. 62 N at max. spring travel |
| Spring travel | 7 mm max. |

Environmental data

| | |
|--|--------------------------------------|
| Temperature range | -40°C to +85°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 2002/95/EC (RoHS) | MIL-STD-202, Method 106 compliant |

Tooling

N/A

Suitable cables

N/A

Packing

| | |
|----------|---------------|
| Standard | 25 pcs in box |
| Weight | 53.2 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 |
|--|----------|--------------|----------|------|--|---------------|---------------|
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