



1) Marking: DC to 70 GHz

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

Interface

According to IEC 61169-32
Mechanically compatible with RPC-2.40

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Dielectric

Material

Beryllium copper
Stainless steel
PEEK

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated

RPC-1.85

ADAPTOR
JACK - JACK

08K121-K00S3

Electrical data

| | |
|---------------------------|-----------------------|
| Impedance | 50 Ω |
| Frequency | DC to 70 GHz |
| Return loss | ≥ 17 dB, DC to 70 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 |
| RF-leakage | ≥ 100 dB up to 1 GHz |

Mechanical data

| | |
|----------------------------|--------------------|
| Mating cycles | ≥ 500 |
| Center contact captivation | ≥ 20 N |
| Coupling test torque | 1.65 Nm |
| Recommended torque | 0.80 Nm to 1.10 Nm |

Environmental data

| | |
|---------------------|-------------------------------|
| Temperature range | -40°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 |
| 2002/95/EC (RoHS) | compliant |

Tooling

N/A

Suitable cables

N/A

Packing

| | |
|----------|--------------|
| Standard | 1 pce in box |
| Weight | 5.4 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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