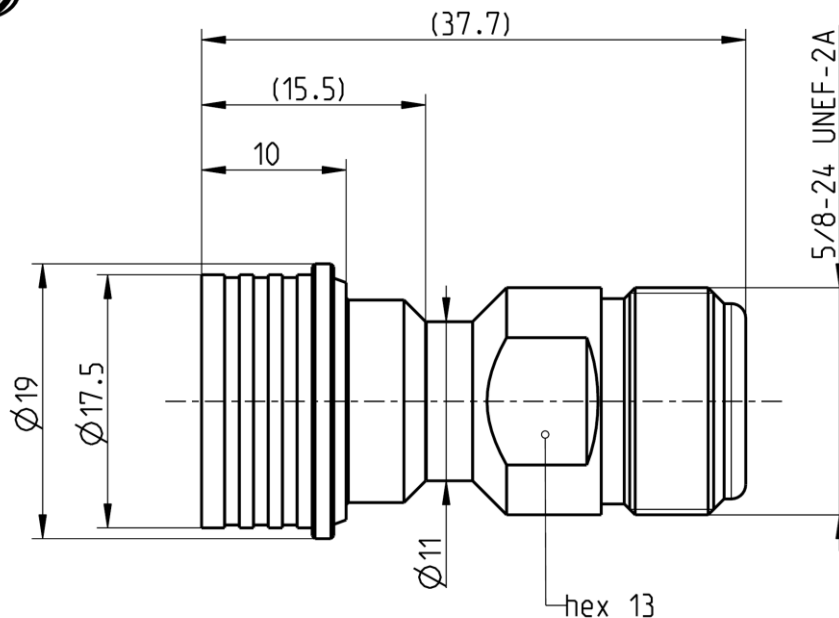


QN

Adaptor
QN Plug – N 50 Ω JACK

153QS153-K00N5



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

Interface

QN according to
N according to

153QS000-000, DCA-00067913
IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Contact spring
Body
Dielectric

Material

CuBe
Brass
CuBe
Brass
PTFE

Plating

AuroDur®, gold plated
Flash white bronze over silver(e.g. Optargen®)
AuroDur®, gold plated
Flash white bronze over silver(e.g. Optargen®)

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QN

Adaptor
QN Plug – N 50 Ω JACK

153QS153-K00N5

Electrical data

| | | |
|---|----------------------------|-------------------|
| Impedance | 50 Ω | |
| Frequency | DC to 11 GHz | |
| Return loss | ≥ 30 dB, DC to 3 GHz | |
| | ≥ 25 dB, 3 to 6 GHz | |
| Insertion loss | ≤ 0.05 dB x √ f [GHz] | |
| Insulation resistance | ≥ 5 x10 ³ MΩ | |
| Center contact resistance | ≤ 1.5 mΩ, QN side | ≤ 1 mΩ, N side |
| Outer contact resistance | ≤ 1.5 mΩ, QN side | ≤ 0.25 mΩ, N side |
| Test voltage | 2500 V rms | |
| Working voltage | 1000 V rms | |
| RF-leakage | ≤ -90 dB, 100 MHz to 3 GHz | |
| Power handling | 300 W @2.5 GHz (typ.) | |
| Intermodulation (3 rd order) | ≤ -112 dBm @ 2 x 20 W | |

Mechanical data

| | | |
|----------------------------------|-------------|------------------|
| | QN side | N side |
| Mating cycles | min. 100 | min. 500 |
| Center contact captivation axial | ≥ 28 N | ≥ 28 N |
| Engagement force | 30 N (typ.) | N/A |
| Disengagement force | 30 N (typ.) | N/A |
| Coupling test torque | N/A | max. 1.7 Nm |
| Recommended torque | N/A | 0.7 Nm to 1.1 Nm |

Environmental data

| | |
|-----------------------------------|--|
| Temperature range | -40°C to +125°C |
| Thermal shock | MIL-STD-202, Meth. 107 D, Cond. B |
| Corrosion | MIL-STD-202, Meth. 101 D, Cond. B |
| Vibration | MIL-STD-202, Meth. 204 D, Cond. A |
| Shock | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106 F |
| Degree of protection (mated pair) | IEC 60529, IP68 0.3 bar (interface only) |
| RoHS | compliant |

Tooling

| | |
|-----------------|-----|
| Crimping tool | N/A |
| Crimping insert | N/A |

Suitable cables

N/A

Weight

Weight 35 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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|-----------------|----------|-------------|----------|------|---------------------------|----------------|----------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| Andreas Fellner | 29.08.05 | Chr. Janßen | 19.10.20 | d00 | 20-1927 | S. Huber-Siegl | 19.10.20 |

| | | | | | | | |
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