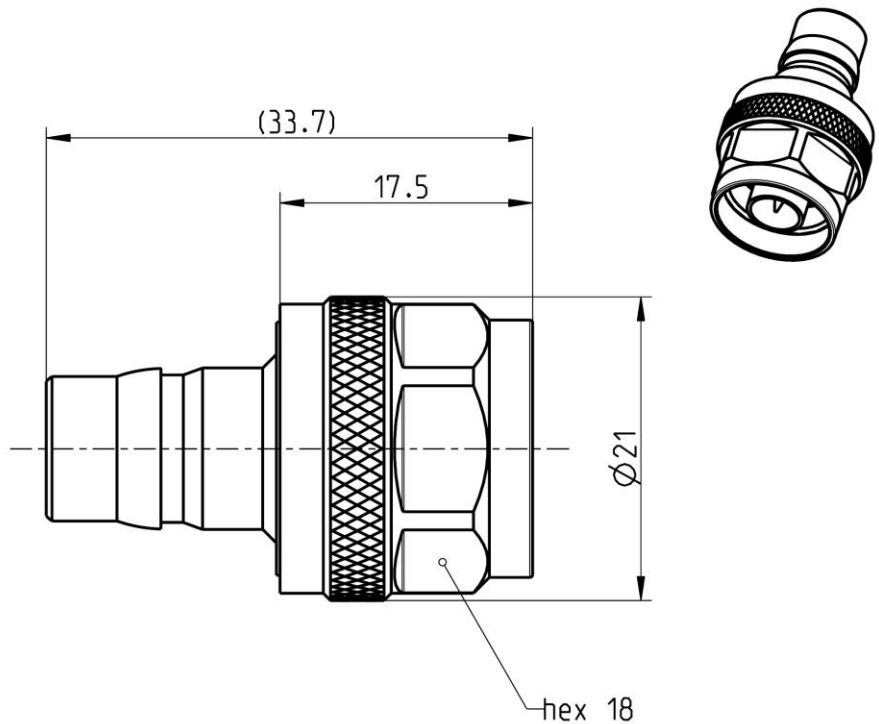


QN

Adaptor
QN Jack – N 50 Ω Plug

153QK153-S00N5



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

Interface

QN according to
N according to

153QK000-000, DCA-00067752
IEC 60169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Gasket

Material

Spring bronze
Brass
Brass
PTFE
Silicone

Plating

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

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QN

Adaptor
QN Jack – N 50 Ω Plug

153QK153-S00N5

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 x 10 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

N/A

Suitable cables

N/A

Weight

Weight 28.3 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.

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 | c00 | 20-1927 | S. Huber-Siegl | 19.10.20 |
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