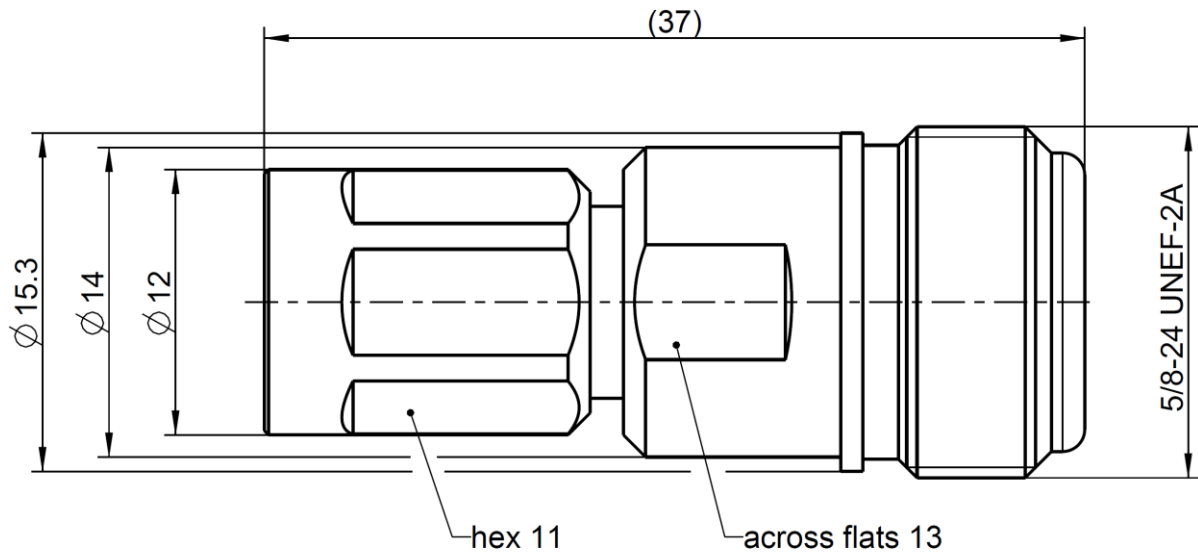


N 50 Ω

Adaptor
N Jack – NEX10 Plug

53K189-S00N1



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

Interface

According to NEX10 side: NEX10™
N side: IEC 61169-16, MIL-PRF-39012, CECC 22210

Documents

N/A

Material and plating

Connector parts

| Connector parts | NEX10 side: | Material | Plating |
|-----------------|-------------|---------------|------------------------------|
| Center contact | NEX10 side: | Brass | Silver, 3-6 μm |
| Center contact | N side: | Spring bronze | Silver, 3-6 μm |
| Outer contact | N side: | Brass | White bronze(e.g. Optalloy®) |
| Outer contact | NEX10 side: | Spring bronze | Silver, 3-6 μm |
| Body | | Brass | White bronze(e.g. Optalloy®) |
| Dielectric | | PTFE | |
| Gasket | | Silicone | |

Electrical data

| | |
|---|--|
| Impedance | 50 Ω |
| Frequency | DC to 11 GHz |
| Return loss | ≥ 30 dB @ DC to 6 GHz |
| Insertion loss | ≤ 0.05 x √ f [GHz] dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 2.0 mΩ, NEX10 side ≤ 1.0 mΩ, N side |
| Outer contact resistance | ≤ 1.0 mΩ, NEX10 side ≤ 0.25 mΩ, N side |
| Working voltage | 500 V rms |
| RF-leakage | ≥ 110 dB @ DC to 6 GHz |
| Power handling | 100 W @ 2.0 GHz and 85°C ambient temperature |
| Intermodulation (3 rd order) | ≥ 155 dBc (2 x 43 dBm) @ 0.4 – 6.0 GHz |

Mechanical data

| | | |
|--------------------|------------|------------------|
| | NEX10 side | N side |
| Mating cycles | ≥ 100 | ≥ 100 |
| Recommended torque | 1.5 Nm | 0.7 Nm to 1.1 Nm |

Environmental data

| | |
|-----------------------------------|---|
| Temperature range | -55 °C to +125 °C operating temperature |
| Thermal shock | IEC 61169-1 9.4.4 |
| Vibration | IEC 61169-1 9.3.3 and IEC 60068-2-64 |
| Shock | IEC 61169-1 9.3.14 |
| Degree of protection (mated pair) | IEC 60529, IP68 24h / 1m |
| RoHS | compliant |

Tooling

N/A

Suitable cables

N/A

Weight

Weight 41.4 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.

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



| | | | | | | | |
|--|----------|-------------|----------|--|---------------------------|----------------|---------------|
| Draft | Date | Approved | Date | Rev. | Engineering change number | Name | Date |
| F. Fraunhofer | 02.01.17 | Chr. Janßen | 22.12.20 | c00 | 20-1927 | S. Huber-Siegl | 22.12.20 |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.com | | | | Tel. : +49 8684 18-0 Email : info@rosenberger.com | | | Page 2 / 2 |

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