



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

Interface

Compatible to IEC 61169-8, MIL-PRF-39012, CECC 22120

Documents

Assembly instruction 51 P

Material and plating

Connector parts

- Center contact
- Outer contact
- Body
- Dielectric
- Crimping ferrule

Material

- Spring bronze
- Brass
- Brass
- PTFE
- Copper

Plating

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

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/08.13/6.1

BNC 75 Ω

STRAIGHT JACK

71K101-109N5

Electrical data

| | |
|--|---|
| Impedance | 75 Ω |
| Frequency | DC to 4 GHz |
| Return loss | ≥ 23 dB @ DC to 1 GHz ≥ 15 dB @ 1 GHz to 4 GHz |
| Insertion loss | ≤ 0.05 x √ f [GHz] dB |
| Insulation resistance | ≥ 5 GΩ |
| Center contact resistance | ≤ 1.5 mΩ |
| Outer contact resistance | ≤ 1 mΩ |
| Test voltage (at sea level) | 1500 V rms |
| Working voltage (at sea level) | 400 V rms |
| Power handling (at 20 °C, sea level, VSWR 1.0) | 80 W @ 2 GHz |

- Limitations are possible due to the used cable type -

Mechanical data

| | |
|-----------------------------------|--------|
| Mating cycles | ≥ 500 |
| Center contact captivation: axial | ≥ 15 N |

Environmental data

| | |
|----------------------|--------------------------------------|
| Temperature range | -45 °C to +85 °C |
| Thermal shock | MIL-STD-202, Method 107, Condition B |
| Corrosion resistance | MIL-STD-202, Method 101, Condition B |
| Vibration | MIL-STD-202, Method 204, Condition B |
| Shock | MIL-STD-202, Method 213, Condition G |
| Moisture resistance | MIL-STD-202, Method 106 |
| RoHS | compliant |

Tooling

| | |
|---------------|------------|
| Crimping tool | 11W150-000 |
| Crimp insert | 11W150-209 |

Suitable cables

RG 59 B/U

Weight

| | |
|--------|------------|
| Weight | 13.5 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 |
| Inge Mühlauer | 20.07.04 | Sa. Krautenbacher | 21.03.14 | d00 | 14-0352 | T. Krojer | 21.03.14 |

Rosenberger Hochfrequenztechnik GmbH & Co. KG
 P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
 Fax : +49 8684 18-499
 Email : info@rosenberger.de

Page
 2 / 2

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Rosenberger:](#)

[71K101-109N5](#)