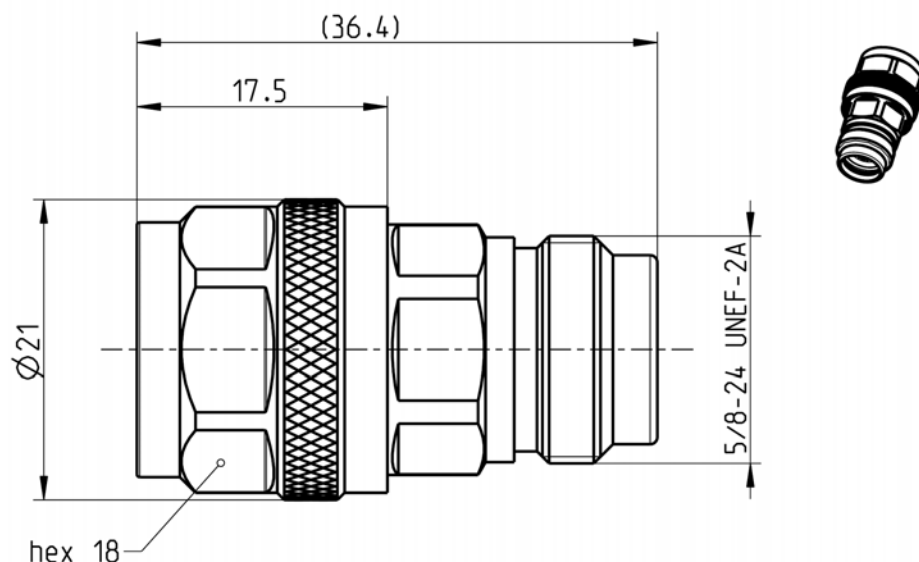


Adaptor  
SnapN 50  $\Omega$  Jack – N 50  $\Omega$  Plug

**53QK153-S00N5**

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

**Interface**

According to

IEC 60169-16, MIL-PRF-39012, CECC 22210

**Documents**

N/A

**Material and plating****Connector parts**

Center contact  
Outer contact  
Dielectric  
Gasket

**Material**

Beryllium copper  
Brass  
PTFE  
Silicone

**Plating**

AuroDur®, gold plated  
White bronze(e.g. Optalloy®)

## Adaptor

### SnapN 50 $\Omega$ Jack – N 50 $\Omega$ Plug

**53QK153-S00N5****Electrical data**

|                                         |                                        |                                 |
|-----------------------------------------|----------------------------------------|---------------------------------|
| Impedance                               | 50 $\Omega$                            |                                 |
| Frequency                               | DC to 11 GHz                           |                                 |
| Return loss                             | $\geq 35$ dB, DC to 2 GHz              |                                 |
|                                         | $\geq 30$ dB, 2 to 4 GHz               |                                 |
|                                         | $\geq 25$ dB, 4 to 9 GHz               |                                 |
| Insertion loss                          | $\leq 0.05$ dB x $\sqrt{f}$ [GHz]      |                                 |
| Insulation resistance                   | $\geq 5 \times 10^3$ M $\Omega$        |                                 |
| Center contact resistance               | $\leq 1.0$ m $\Omega$ , SnapN side     | $\leq 1.0$ m $\Omega$ , N side  |
| Outer contact resistance                | $\leq 1.0$ m $\Omega$ , SnapN side     | $\leq 0.25$ m $\Omega$ , N side |
| Test voltage                            | 2500 V rms                             |                                 |
| Working voltage                         | 500 V rms                              |                                 |
| RF-leakage                              | -90 dB @ 3 GHz                         |                                 |
|                                         | -80 dB @ 6 GHz                         |                                 |
| Intermodulation (3 <sup>rd</sup> order) | $\leq -155$ dBc @ 1.8 GHz (2 x 43 dBm) |                                 |

**Mechanical data**

|                                   |             |                  |
|-----------------------------------|-------------|------------------|
|                                   | SnapN side  | N side           |
| Mating cycles                     | min. 200    | min 500          |
| Center contact captivation: axial | $\geq 28$ N |                  |
| Engagement force                  | 30 N (typ.) |                  |
| Disengagement force               | 30 N (typ.) |                  |
| 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 +85°C                  |
| Thermal shock       | MIL-STD-202, Meth. 107, Cond. B |
| Corrosion           | MIL-STD-202, Meth. 101, Cond. B |
| Vibration           | MIL-STD-202, Meth. 204, Cond. B |
| Shock               | MIL-STD-202, Meth. 213, Cond. I |
| Moisture resistance | MIL-STD-202, Meth. 106          |
| RoHS                | compliant                       |

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

Weight 43.6 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          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|----------|--------------------------------------------------------------------------------------------|---------------------------|-------------|---------------|
| Gramsamer Sepp                                                                                                                                         | 13/03/06 | J_Gramsamer | 31.03.15 | c00                                                                                        | 15-0397                   | J_Krautenb. | 31.03.15      |
| Rosenberger Hochfrequenztechnik GmbH & Co. KG<br>P.O.Box 1260 D-84526 Tittmoning Germany<br><a href="http://www.rosenberger.de">www.rosenberger.de</a> |          |             |          | Tel.: +49 8684 18-0<br>email: <a href="mailto:info@rosenberger.de">info@rosenberger.de</a> |                           |             | Page<br>2 / 2 |