



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 - plug
- Center contact - jack
- Outer contact
- Coupling nut
- Dielectric
- Substrate

Material

- Brass
- CuBe
- Brass
- Brass
- PTFE
- ALN

Plating

- Gold, min. 1.27 μm, over nickel
- Gold, min. 1.27 μm, over nickel
- 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_35/05.10/6.0

N 50 Ω

Attenuator
Plug/Jack

53AS105-K20N3

Electrical data

Impedance 50 Ω
 Frequency DC to 10 GHz
 Return loss ≥ 26.4 dB, DC to 2 GHz
 ≥ 21.2 dB, 2 GHz to 5 GHz
 ≥ 14.0 dB, 5 GHz to 10 GHz
 Attenuation 20 dB ± 0.5 dB, DC to 4 GHz
 20 dB ± 1.5 dB, 4 GHz to 10 GHz
 Center contact resistance ≤ 1 mΩ
 Outer contact resistance ≤ 0.25 mΩ
 Power handling ≤ 5 W at 25°C

Mechanical data

Mating cycles ≥ 500
 Coupling nut retention ≥ 450 N
 Center contact captivation: ≥ 28 N
 Maximum torque 1.70 Nm
 Recommended torque 0.70 Nm to 1.10 Nm

Environmental data

Temperature range -65°C to +125°C
 RoHS compliant

Packing

Standard 1 pce in bag
 Weight 73 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
Kerstin Herzog	05/08/05	Lars Ramtke	16/08/13	b00	12-0878	Marion Striegler	16/08/13
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