



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

Interface

According to DIN EN 61169-8

Documents

Panel piercing B 3

Material and plating

Connector parts

Center contact
Outer contact
Body
Dielectric
Isolating round flange

Material

CuNi1Pb1P (C97)
Brass
Brass
PTFE
POM

Plating

AuroDur®, gold plated
Nickel, 2.5-5 µm
Nickel, 2.5-5 µm

BNC 50 Ω Adaptor
Jack – Jack

51K542-K00A5

Electrical data

Impedance 50 Ω
 Frequency DC to 10 GHz
 Return loss ≥ 36 dB @ DC to 2 GHz
 ≥ 29 dB @ 2 GHz to 3 GHz
 Insertion loss ≤ 0.05 x √ f [GHz] dB, DC to 3 GHz
 Insulation resistance ≥ 5 MΩ
 Center contact resistance ≤ 20 mΩ
 Outer contact resistance ≤ 5 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

Mechanical data

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

Environmental data

Temperature range -25 °C to +110 °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

N/A

Suitable cables

N/A

Weight

Weight 14.2 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
Chr. Entsfellner	10.07.08	Chr. Janßen	08.12.20	h00	20-1927	S. Huber-Siegl	08.12.20

Rosenberger Hochfrequenztechnik GmbH & Co. KG
 P.O.Box 1260 D-84526 Tittmoning Germany
<http://www.rosenberger.com/>

Tel. : +49 8684 18-0
 Email : info@rosenberger.com

Page
 2 / 2

Mouser Electronics

Authorized Distributor

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

[Rosenberger:](#)

[51K542-K00A5](#)