



1) Marking:
Rosenberger
DC-Block
P5DS121-K01
4 MHz to 4 GHz

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

Interface

According to IEC 60169-16 ; CECC 22 210 ; MIL-STD 348A/402

Documents

N/A

Material and plating

Connector parts

Center contact
Outer contact
Coupling nut
Dielectric

Material

Beryllium copper
Stainless steel
Stainless steel
PS

Plating

Gold, min. 1.27 µm, over chemical nickel
Passivated
Passivated

RPC-N 75 Ω DC-BLOCK
PLUG / JACK**P5DS121-K01S3****Electrical data**

Impedance	75 Ω
Frequency	4 MHz to 4 GHz
Return loss	≥ 25 dB, 4 MHz to 1 GHz ≥ 21 dB, 1 GHz to 4 GHz
Insertion loss	≤ 1.0 dB, 4 MHz to 4 GHz
Insulation resistance	≥ 5 G Ω
Center contact resistance	≤ 1.0 m Ω
Outer contact resistance	≤ 1.0 m Ω
Working voltage	50 Vdc max.
Capacity	6000 pF
Block type	Center contact only

Mechanical data

Mating cycles	≥ 500
Center contact captivation	≥ 28 N
Coupling test torque	1.70 Nm
Recommended torque	0.70 Nm to 1.10 Nm

Environmental data

Temperature range	-20°C to +70°C
Thermal shock	IEC 61169-1, Subclause 9.4.4
Corrosion	IEC 61169-1, Subclause 9.4.6
Vibration	IEC 61169-1, Subclause 9.3.3
Shock	IEC 61169-1, Subclause 9.3.14
Moisture resistance	IEC 61169-1, Subclause 9.4.3
2002/95/EC (RoHS)	compliant

Tooling

N/A

Suitable cables

N/A

Packing

Standard	1 pce in box
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
Herbert Babinger	24/01/05	A. Maiwalder	18/07/11	f00	11-0610	M. Rahberger	13/07/11
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