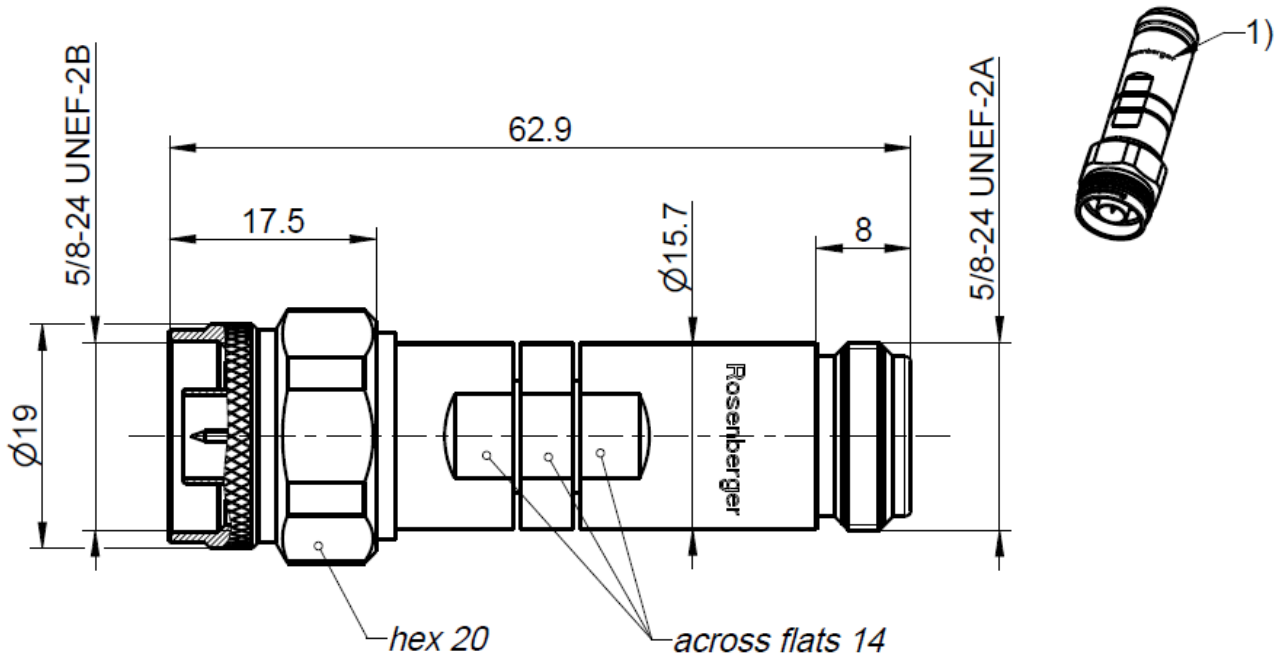


RPC-N  
75 Ω

DC-Block  
plug - jack

**P5DS121-K01S3**



1) Marking:  
**Rosenberger**  
 DC-Block  
 P5DS121-K01  
 4 MHz to 12 GHz

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

**Interface**

According to IEC 61169-16

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
 Outer contact  
 Coupling nut  
 Dielectric

**Material**

CuBe  
 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 12 GHz  
 Return loss ≥ 25 dB, 4 MHz to 1 GHz  
 ≥ 21 dB, 1 GHz to 4 GHz  
 ≥ 15 dB, 4 GHz to 12 GHz  
 Insertion loss ≤ 0.6 dB, 4 MHz to 4 GHz  
 ≤ 1.0 dB, 4 GHz to 12 GHz  
 Insulation resistance ≥ 5 GΩ  
 Working voltage (at sea level) 50 Vdc max.  
 Capacity 10 nF  
 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 -40°C to +85°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  
 RoHS compliant

**Tooling**

N/A

**Suitable cables**

N/A

**Weight**

73.0 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
H.Babinger	24.01.05	M. Moder	17.02.23	g00	23-0276	T. Börgerding	17.02.23

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