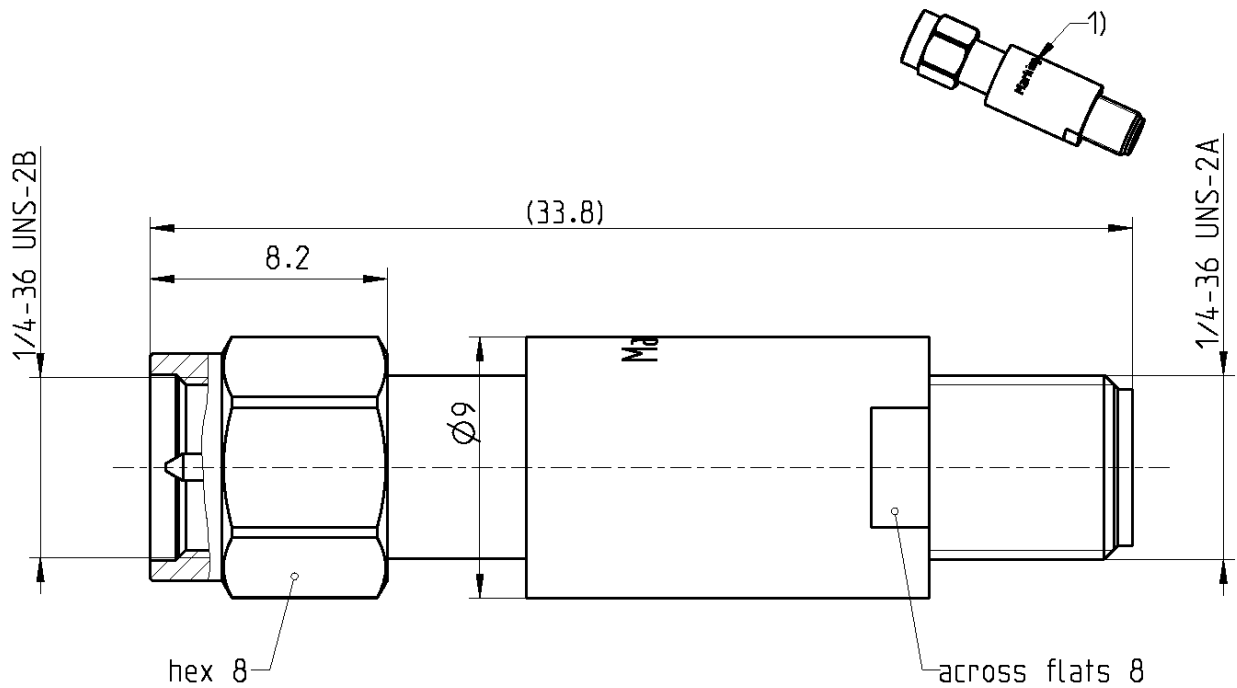


RPC-3.50

DC-Block  
plug - jack

**03DS101-K00E3**



1) Marking:  
**Rosenberger**  
DC-Block  
03DS101-K00  
20 MHz to 26.5 GHz

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

**Interface**

According to IEC 60169-23  
Mechanically compatible with RPC-2.92 and SMA

**Documents**

N/A

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Coupling nut  
Dielectric  
Gasket

**Material**

CuBe  
CuBe  
Stainless steel  
PS  
Silicone

**Plating**

Gold, min. 1.27 µm, over chemical nickel  
Gold, min. 0.8 µm, over chemical nickel  
Passivated

RPC-3.50

DC-Block  
plug - jack

**03DS101-K00E3**

**Electrical data**

Impedance 50 Ω  
 Frequency 20 MHz to 26.5 GHz  
 Return loss ≥ 22 dB, 20 MHz to 22 GHz  
 ≥ 20 dB, 22 GHz to 26.5 GHz  
 Insertion loss ≤ 0.5 dB, 20 MHz to 26.5 GHz  
 Insulation resistance ≥ 5 GΩ  
 Working voltage (at sea level) 100 Vdc max.  
 Capacity 1.2 nF  
 Block type Center contact only

**Mechanical data**

Mating cycles ≥ 500  
 Center contact captivation ≥ 27 N  
 Coupling test torque 1.70 Nm  
 Coupling torque recommended 0.80 Nm to 1.10 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. D  
 Shock MIL-STD-202, Meth. 213, Cond. I  
 Moisture resistance MIL-STD-202, Meth. 106  
 RoHS compliant

**Tooling**

N/A

**Suitable cables**

**Weight**

10.6 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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RFB00035/12.20/6.4

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H.Babinger	09.10.06	M. Moder	16.02.23	c00	23-0276	T. Börgerding	16.02.23

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