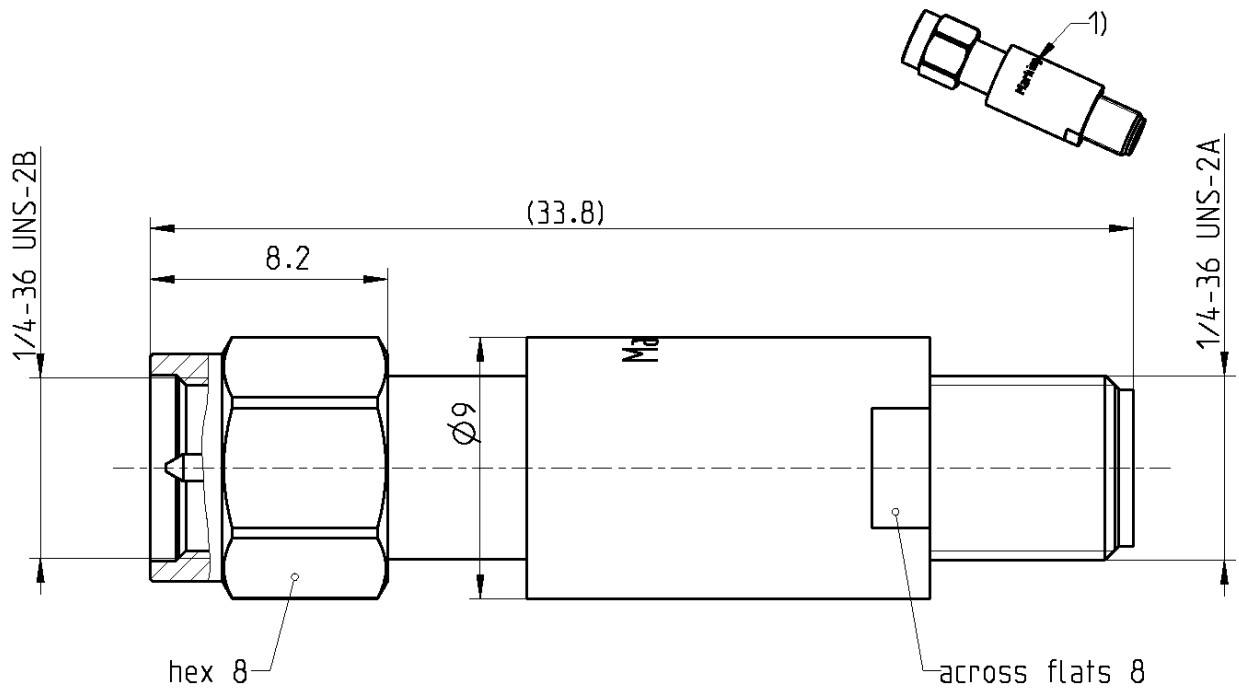


RPC-3.50

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	CuBe
Outer contact	CuBe
Coupling nut	Stainless steel
Dielectric	PS
Gasket	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 ≤ 0.50 dB, 20 MHz to 22 GHz  
 ≤ 0.70 dB, 22 GHz to 26.5 GHz  
 Insulation resistance ≥ 5 GΩ  
 Working voltage (at sea level) 50 Vdc max.  
 Capacity 1500 pF  
 Block type Center contact only

**Mechanical data**

Mating cycles ≥ 500  
 Center contact captivation ≥ 27 N  
 Coupling test torque 1.70 Nm  
 Recommended torque 0.80 Nm to 1.10 Nm

**Environmental data**

Temperature range -20°C to +70°C  
 Thermal shock MIL-STD-202, Method 107, Condition B  
 Corrosion MIL-STD-202, Method 101, Condition B  
 Vibration MIL-STD-202, Method 204, Condition D  
 Shock MIL-STD-202, Method 213, Condition I  
 Moisture resistance MIL-STD-202, Method 106  
 RoHS compliant

**Tooling**

N/A

**Suitable cables**

N/A

**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.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
H. Babinger	09.10.06	F. Reiner	26.06.18	b01	18-1026	M. Ruf	25.06.18

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