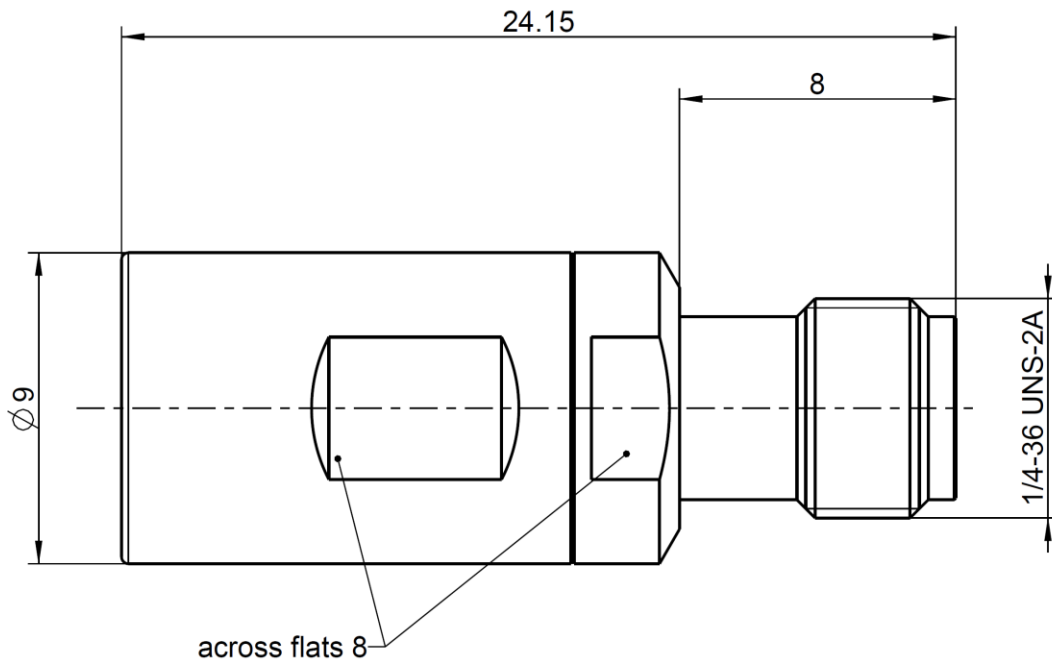


EBC

Adaptor  
EBC jack – SMA female

**EBCK132-K00N5**



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

**Interface**

According to: EBC-side: Rosenberger EBC  
SMA side: IEC 60169-15; EN 122110; MIL-STD-348A, Fig. 310

**Documents**

Application note EBC

**Material and plating**

**Connector parts**

- Center contact EBC
- Center Contact SMA
- Outer contact EBC
- Outer Contact SMA
- Body EBC
- Body
- Dielectric

**Material**

- Spring bronze
- CuBe or equiv.
- Spring bronze
- Brass
- Brass
- Brass
- PTFE / LCP

**Plating**

- AuroDur®, gold plated
- AuroDur®, gold plated
- White bronze(e.g. Optalloy®)
- AuroDur®, gold plated
- Tin, 2-4  $\mu$ m
- Flash white bronze over silver(e.g. Optargen®)

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RF\_35/09.14/6.2

EBC

Adaptor  
EBC jack – SMA female

**EBCK132-K00N5**

**Electrical data**

Impedance	50 Ω
Frequency	DC to 8 GHz
Return loss	≥ 26 dB @ DC to 6 GHz* (tbd)
Insertion loss	≤ 0.03 x √f [GHz] dB (tbd)
Insulation resistance	≥ 5 GΩ (tbd)
Center contact resistance	≤ 10 mΩ (tbd)
Outer contact resistance	≤ 5 mΩ (tbd)
Test voltage (at sea level)	500 V rms (tbd)
Working voltage (at sea level)	335 V rms (tbd)
Power handling (sea level, VSWR 1.0)	100 W @ 2.2 GHz @ 25°C (tbd)
Contact Current	≤ 2A DC (tbd)
RF leakage – Interface only	≥ 50 dB up to 4 GHz (tbd)
Crosstalk – Next / Fext	≥ 70 dB up to 4 GHz (tbd)
Intermodulation (3 <sup>rd</sup> order)	≥ 140 dBc (2 x 43 dBm) (tbd)

**Mechanical data**

	EBC side	SMA side
Mating cycles	≥ 100 (tbd)	≥100
Center contact captivation	≥ 7 N	≥27 N
Disengagement force EBC side	Δ 3N - 5N (between Limited Detent and Smooth Bore) (tbd)	
Working range	1.6 mm (± 0.8 mm)	
Radial misalignment	4°	

**Environmental data**

Temperature range	-55°C to +105°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Climatic category	IEC 61169-1, Sub-clause 9.4.5 (+155 °C, 250 hours) (tbd)
Moisture resistance	MIL-STD-202, Method 106
Vibration	MIL-STD-202, Method 204, Condition B
Shock	MIL-STD-202, Method 213, Condition A
RoHS	compliant

**Weight**

Weight	7.32g/pce
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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
T_Hoehner	26.04.18	L_Bombik	07.02.20	300	20-0299	C_Vitzthum	07.02.20
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.de">www.rosenberger.de</a>						Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.de">info@rosenberger.de</a>	
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