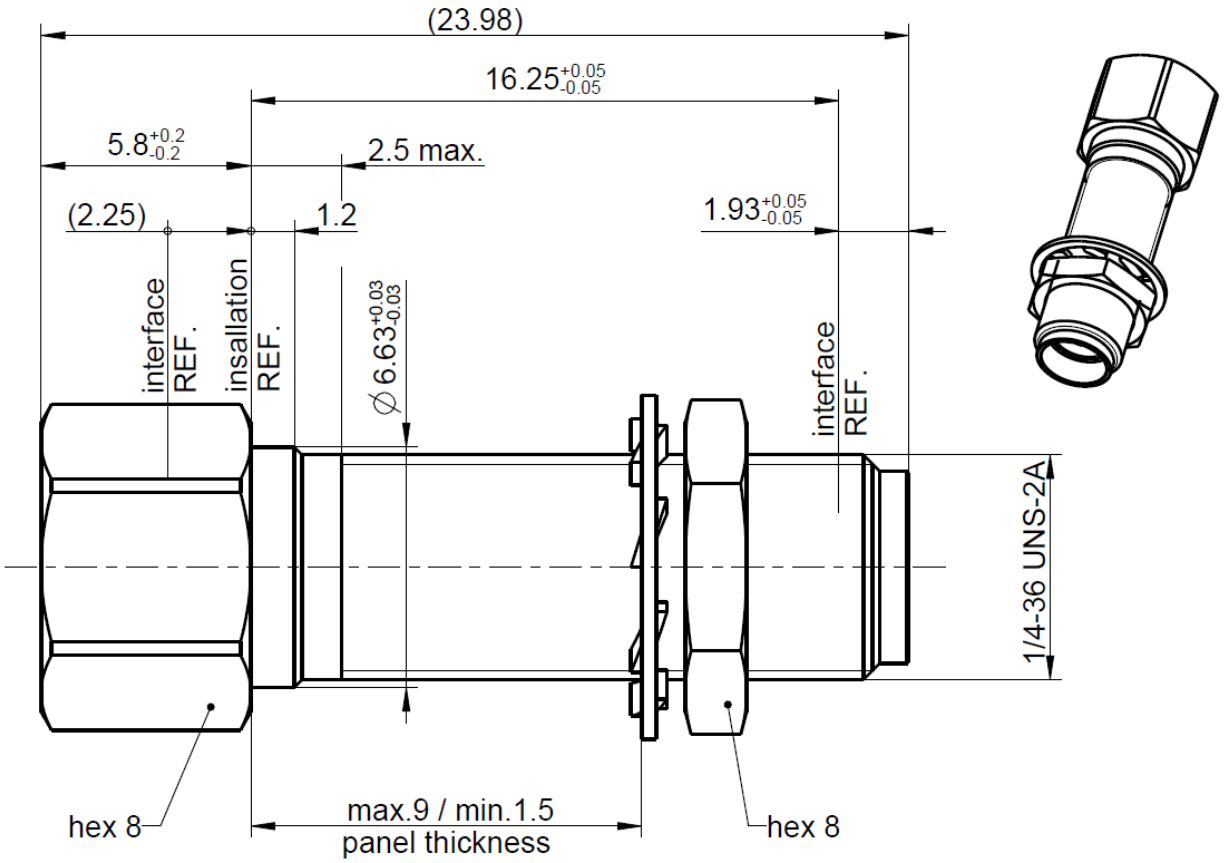
Technical Data Sheet - Draft	Rosenberger

EBC	Adaptor EBC jack – SMA female	**EBCK632-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

Panel piercing	B_730M
Application note	EBC

Material and plating

Connector parts	**Material**	**Plating**
Center contact EBC	Spring bronze	AuroDur®, gold plated
Center Contact SMA	CuBe or equiv.	AuroDur®, gold plated
Outer contact EBC	Spring bronze	White bronze(e.g. Optalloy®)
Outer Contact SMA	Brass	AuroDur®, gold plated
Body EBC	Brass	Tin, 2-4 µm
Body	Brass	Flash white bronze over silver(e.g. Optargen®)
Dielectric	PTFE / LCP	

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Electrical data

Impedance	50 Ω
Frequency	DC to 8 GHz
Return loss	≥ 26 dB @ DC to 6 GHz* (tbd)
Insertion loss	≤ 0.03 x $\sqrt{f\,[GHz]}$ 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 (3rd order)	≥ 140 dBc (2 x 43 dBm) (tbd)

Mechanical data

	EBC side	SMA side
Mating cycles	≥ 100 (tbd)	≥100
Center contact captivation	≥ 7 N	≥15 N tbd.
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	4.5 g/pce

Draft	Date	Approved	Date
C_Schmidinger	19.10.18	C_Schmidinger	23.01.20

Rev.	Engineering change number	Name	Date
300	20-0147	T_Stadler	23.01.20

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