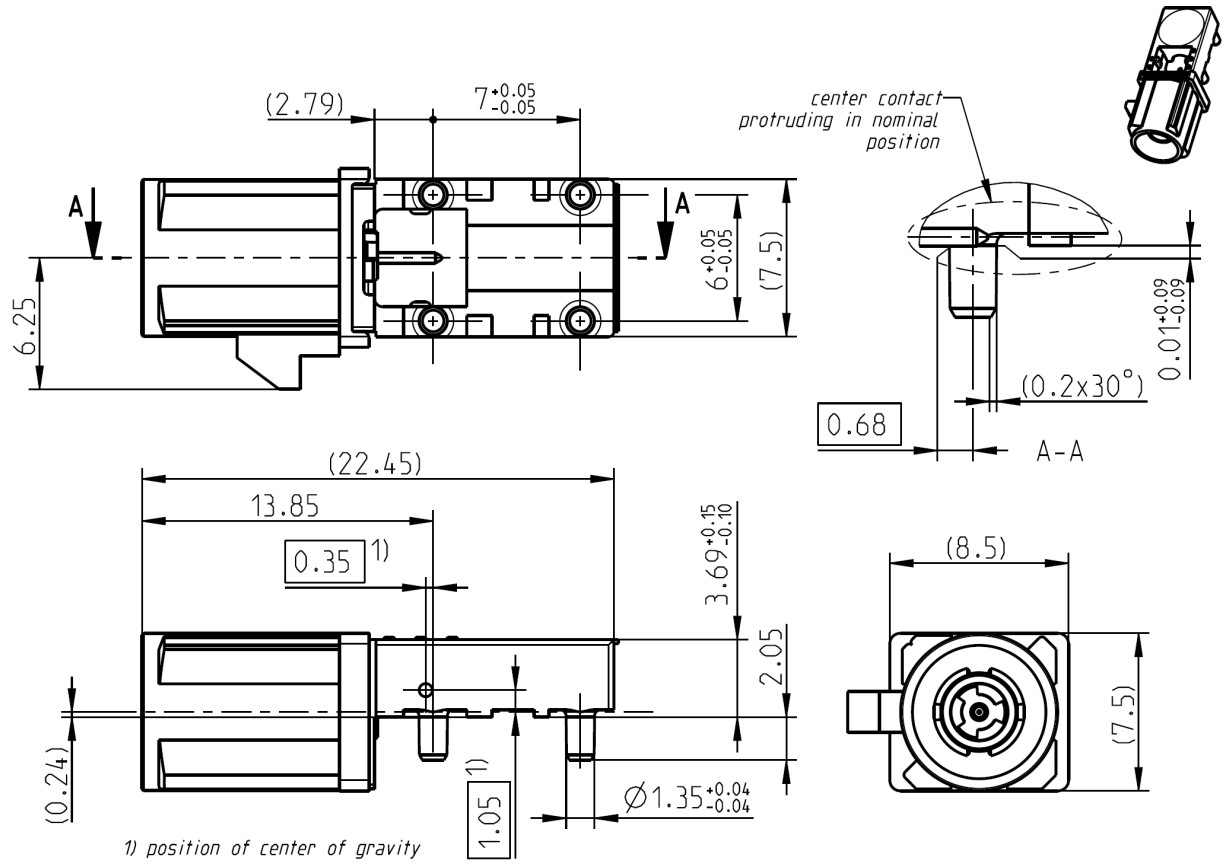
Technical Data Sheet		Rosenberger
FAKRA-HF	RIGHT ANGLE PLUG PCB WITH HOUSING	**59S2RQ-40MT5-Y_1**



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

Interface

According to	ISO 20860-1

Documents

PCB layout	MB_355; MB_172
Tape & reel packaging	VG272.56000

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	AuroDur®, gold plated
Outer contact	Zinc alloy	Tin, 2-5 µm, over Nickel 1-5µm
Dielectric	HTN	
Housing	HTN	

Preliminary

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB, DC to 1 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 1x10^3 MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	750 V rms
Working voltage	335 V rms
Power current	≤ 1 A DC

- Connector only, VSWR in application depends decisive on PCB layout –

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 25 N
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 40 N

- Mechanical data are valid 48h from the end of the soldering process –

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN 72594-2 clause 8.2
Temperature and humidity	DIN 72594-2 clause 8.3
Vibration and mechanical shock	DIN 72594-2 clause 8.1
Dry heat	DIN 72594-2 clause 8.4
Soldering profile	acc. IEC 60068-2-58 Group 3&4
Storage temperature range	0 – 23°C
Humidity range	max. 50%
RoHS	compliant

Tooling

N/A

Packing

Standard	560 pcs in tape & reel
Weight	2,4 g/pce

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