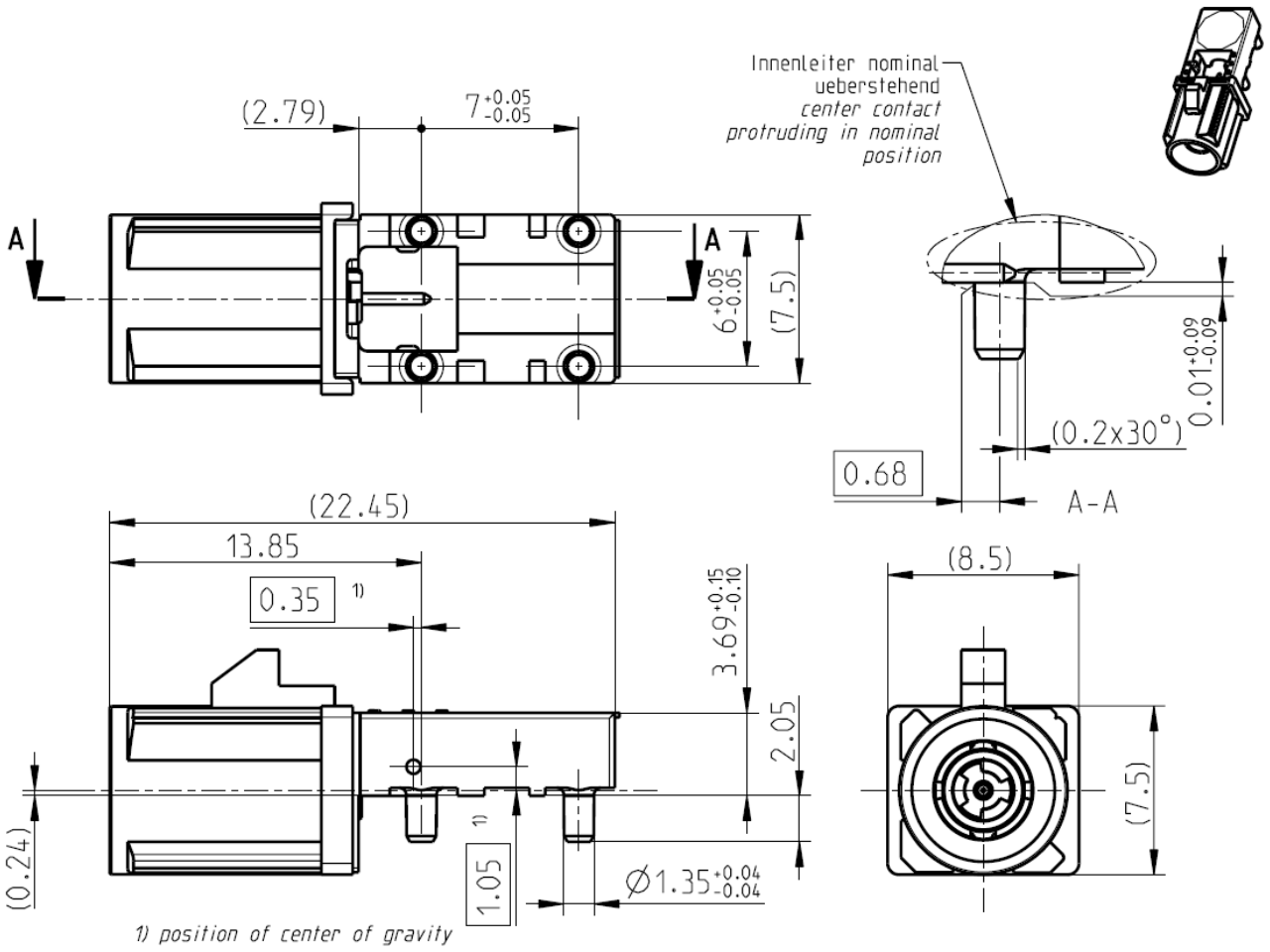
Technical Data Sheet		Rosenberger
FAKRA-HF	RIGHT ANGLE PLUG PCB WITH HOUSING	**59S2AQ-40MT5-Y_1**



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	VG255.43000

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	

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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

e

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
RoHS	compliant e

Tooling

N/A

Packing

Standard	430 pcs in tape & reel
Weight	2,4 g/pce

Storage condition

Moisture Sensitivity Level	2 e

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Coding

Part Number has to be accomplished by codification

Coding		Color	RAL	Part-Number
	A	black	sim. 9005	59S2AQ-40MT5-A_1
	B	white	sim. 9001	59S2AQ -40MT5-B_1
	C	blue	sim. 5005	59S2AQ -40MT5-C_1
	D	bordeauxviolet	sim. 4004	59S2AQ -40MT5-D_1
	E	green	sim. 6002	59S2AQ -40MT5-E_1
	F	brown	sim. 8011	59S2AQ -40MT5-F_1
	G	grey	sim. 7031	59S2AQ -40MT5-G_1
	H	violet	sim. 4003	59S2AQ -40MT5-H_1
	I	beige	sim. 1001	59S2AQ-40MT5-I_1
	K	curry	sim. 1027	59S2AQ-40MT5-K_1
	L	carmine-red	sim. 3002	59S2AQ-40MT5-L_1
	M	pastel-orange	sim. 2003	59S2AQ-40MT5-M_1
	N	white-green	sim. 6019	59S2AQ-40MT5-N_1
	Z	waterblue	sim. 5021	59S2AQ-40MT5-Z_1

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Change History

Rev.	Date	Change
b00	08.10.14	base dimensions in drawing
c00	03.11.14	packing changed from 460 to 430 pcs in tape & reel Tape & reel packaging changed from VG255.46000 to VG255.43000
d00	19.11.14	added storage temperature range: 0 – 23°C; and humidity range: max. 50%
e00	02.03.16	deleted storage temperature range: 0 – 23°C; humidity range: max. 50% and mechanical data are valid 48h from the end of the soldering process , added Storage condition, MSL2

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
M. Bieberbach	19.09.14	C. Wagner	02.03.16

Rev.	Engineering change number	Name	Date
e00	16-0347	T. Koschel	02.03.16

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