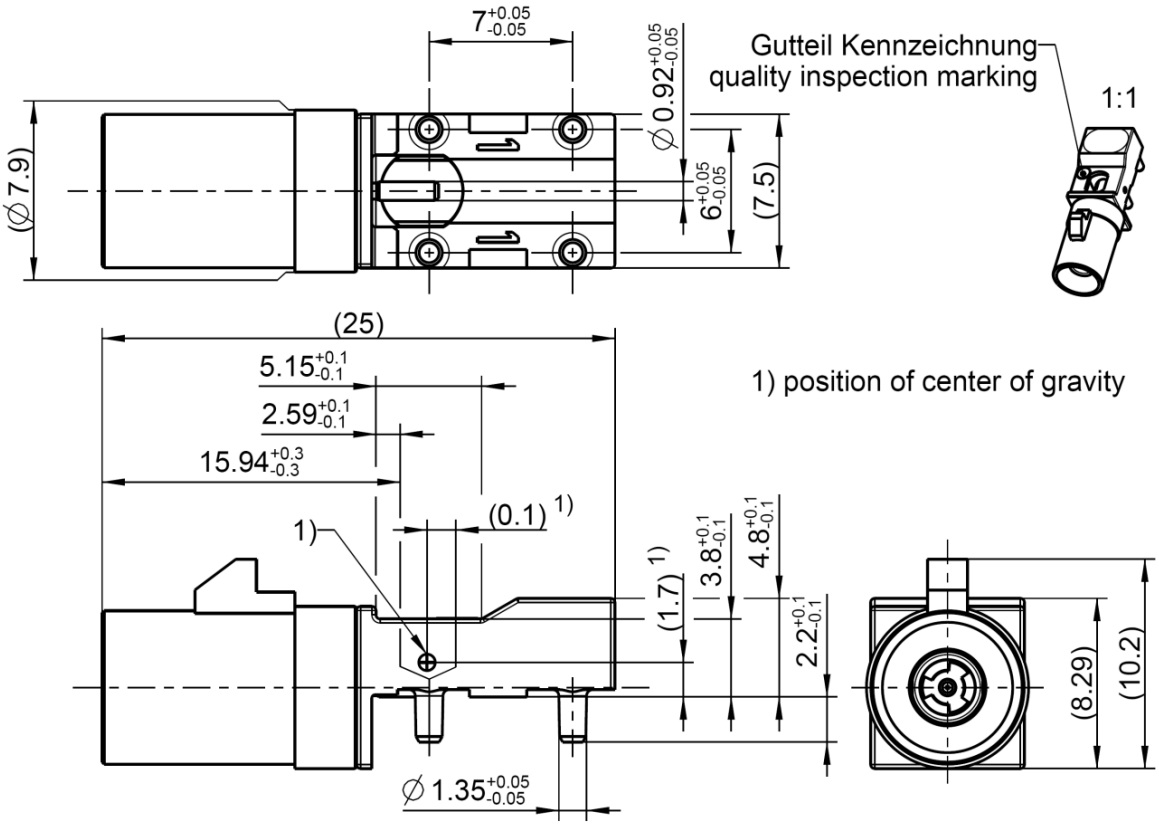
Technical Data Sheet		Rosenberger
FAKRA-HF	RIGHT ANGLE PLUG FOR PCB	**59S2PL-40MT5-Y**



All dimensions are in mm

Interface

According to	ISO 20860-1, USCAR 18 (b)

Documents

PCB layout	MB_581 (MB_355*; MB_172*)
Tape & reel packaging	VG328.25000

Material and plating

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

*) Do not apply for new application

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Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 27 dB, DC to 1 GHz ≥ 20 dB, 1 to 3 GHz ≥ 17 dB, 3 to 6 GHz
Insertion loss	$\leq 0.1 \times \sqrt{f(GHz)}$ dB
Insulation resistance	≥ 1 x10^3 MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage (at sea level)	750 V rms
Working voltage (at sea level)	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 plastic housing	≥ 110 N
Coding efficiency	≥ 40 N
Mechanical Pull Test and Sideload Test	SAE-USCAR-17 4.2.1 (only with mating connector from Rosenberger company and cable type RG 174)

Environmental data

Temperature range	-40°C to 105°C
Thermal shock	ISO 20860-2 clause 9.2
Temperature and humidity	ISO 20860-2 clause 9.3
Vibration and mechanical shock	ISO 20860-2 clause 9.1
Dry heat	ISO 20860-2 clause 9.4
Soldering profile	acc. IEC 60068-2-58, group 3 (250°C/30s)
RoHS	compliant

Packing

Standard	250 pcs in tape & reel
Weight	3.5 g/pc

Coding

Part Number has to be accomplished by codification

Coding		Color	RAL	Part-Number
	A	black	sim. 9005	59S2PL-40MT5-A
	B	white	sim. 9001	59S2PL-40MT5-B
	C	blue	sim. 5005	59S2PL-40MT5-C
	D	bordeauxviolet	sim. 4004	59S2PL-40MT5-D
	E	green	sim. 6002	59S2PL-40MT5-E
	F	brown	sim. 8011	59S2PL-40MT5-F
	G	grey	sim. 7031	59S2PL-40MT5-G
	H	violet	sim. 4003	59S2PL-40MT5-H
	I	beige	sim. 1001	59S2PL-40MT5-I
	K	curry	sim. 1027	59S2PL-40MT5-K
	L	carmine-red	sim. 3002	59S2PL-40MT5-L
	M	pastel-orange	sim. 2003	59S2PL-40MT5-M
	N	white-green	sim. 6019	59S2PL-40MT5-N
	Z	waterblue	sim. 5021	59S2PL-40MT5-Z

Change History

Rev.	Date	Change
b00	29.04.2021	added a new Interface USCAR 18.

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