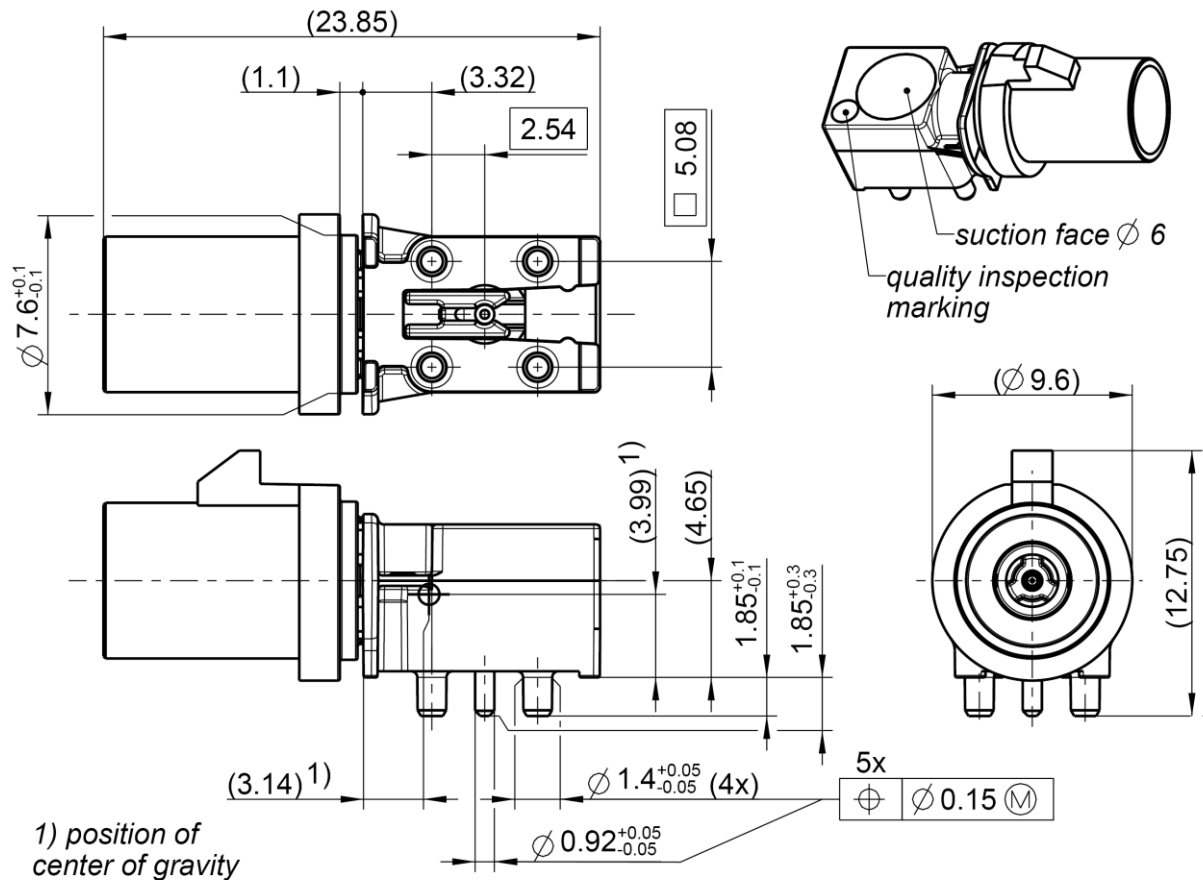


Technical Data Sheet

Rosenberger

FAKRA-HF

RIGHT ANGLE PLUG
FOR PCB**59S20K-40MT5-Y**

All dimensions are in mm

Y = Part number has to be accomplished by codification

Interface

According to

ISO 20860-1

Documents

PCB layout

MB_601

Tape & reel packaging

VG332.30000

Material and plating**Connector parts**

Center contact

Outer contact

Dielectric

Housing

Material

Brass

Zinc alloy

HTN

HTN

Plating

AuroDur®, gold plated

Tin, 2 μ m min.

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 21 dB (DC to 3 GHz)
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 1 x10 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

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. to IEC 60068-2-58 group3 (250°C / 30s)
RoHS	compliant

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RIGHT ANGLE PLUG
FOR PCB

59S20K-40MT5-Y

Packing

Standard

300 pcs in tape & reel

50 pcs in tray

Weight

3.8 g

Coding

Part Number has to be accomplished by codification

Coding		Color	RAL	Part-Number
	A	black	sim. 9005	59S20K-40MT5-A
	B	white	sim. 9001	59S20K-40MT5-B
	C	blue	sim. 5005	59S20K-40MT5-C
	D	claret violet	sim. 4004	59S20K-40MT5-D
	E	green	sim. 6002	59S20K-40MT5-E
	F	brown	sim. 8011	59S20K-40MT5-F
	G	grey	sim. 7031	59S20K-40MT5-G
	H	violet	sim. 4003	59S20K-40MT5-H
	I	beige	sim. 1001	59S20K-40MT5-I
	K	curry	sim. 1027	59S20K-40MT5-K
	L	carmine red	sim. 3002	59S20K-40MT5-L
	M	pastel orange	sim. 2003	59S20K-40MT5-M
	N	pastel green	sim. 6019	59S20K-40MT5-N
	Z	waterblue	sim. 5021	59S20K-40MT5-Z

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
J. Hegenauer	12.10.16	F. Bachmeier	06.09.19	a00	19-s223	J. Frey	06.09.19

Rosenberger Hochfrequenztechnik GmbH & Co. KG
P.O.Box 1260 D-84526 Tittmoning Germany
www.rosenberger.de

Tel. : +49 8684 18-0
Email : info@rosenberger.de

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