

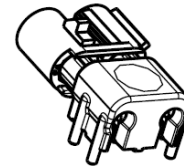
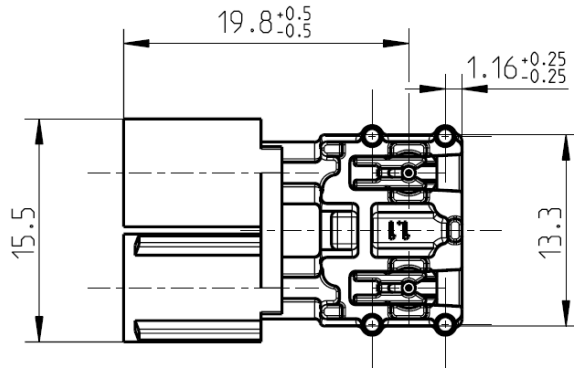
Technical Data Sheet

Rosenberger

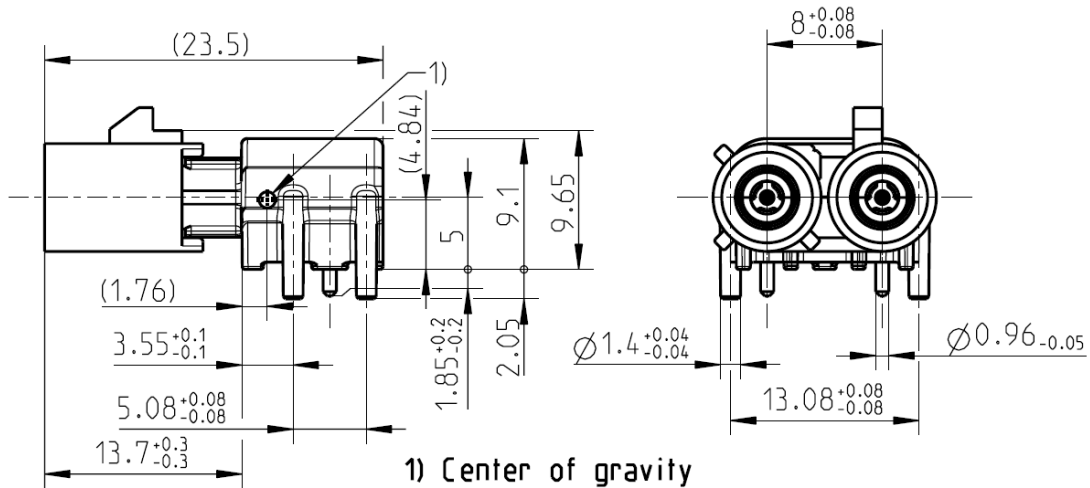
FAKRA
HF

RIGHT ANGLE PLUG
FOR PCB

59S2MB-40MT5-Y



1:1



All dimensions are in mm; tolerances according to ISO 2768 m-H
Y = Part number has to be accomplished by codification

Interface

According to

ISO 20860-1, USCAR 17

Documents

PCB layout

MB_447

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Zinc alloy
HTN
HTN

Plating

AuroDur®, gold plated
Tin, 2-4 µm

Electrical data

Impedance	50 Ω
Frequency	DC to 6GHz
Return loss measured on 50Ω footprint	≥ 24dB (DC to 2,4GHz) ≥ 16dB (2,4GHz to 4GHz)
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ 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	≤ 40 N
Disengagement force	≥ 2 N
Retention force plastic housing	≥ 110 N
Coding efficiency	≥ 40 N

Environmental data

Temperature range	-40°C to 105°C
Thermal shock	DIN 72594-2 – Test group 8.2
Temperature and humidity	DIN 72594-2 – Test group 8.3
Vibration and mechanical shock	DIN 72594-2 – Test group 8.1
Dry heat	DIN 72594-2 – Test group 8.4
Soldering profile	tbd
RoHS	compliant

Tooling

N/A

Packing

Standard	200 pcs in tape and reel
Weight	6.65 g/pce

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Coding

Coding		Color	RAL	Part-Number
	A	black	sim. 9005	59S2MB-40MT5-A
	B	white	sim. 9001	59S2MB-40MT5-B
	C	blue	sim. 5005	59S2MB-40MT5-C
	D	bordeauxviolet	sim. 4004	59S2MB-40MT5-D
	E	green	sim. 6002	59S2MB-40MT5-E
	F	brown	sim. 8011	59S2MB-40MT5-F
	G	grey	sim. 7031	59S2MB-40MT5-G
	H	violet	sim. 4003	59S2MB-40MT5-H
	I	beige	sim. 1001	59S2MB-40MT5-I
	K	curry	sim. 1027	59S2MB-40MT5-K
	L	carmine red	sim.3002	59S2MB-40MT5-L
	M	pastel orange	sim. 2003	59S2MB-40MT5-M
	N	pastel green	sim. 6019	59S2MB-40MT5-N
	Z	waterblue	sim. 5021	59S2MB-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
F. Hohenadl	21.02.13	S.Hering	31.07.13	500	14-1883	P. Schroeder	23.03.15

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