

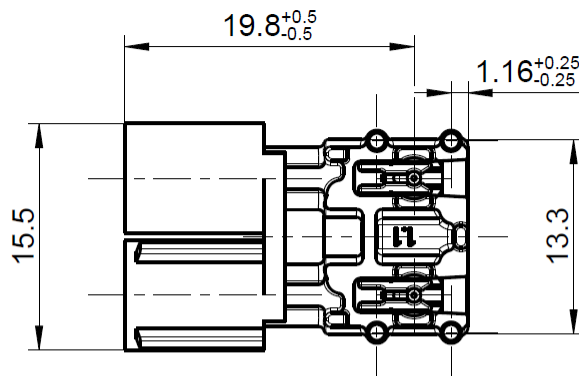
Technical Data Sheet

Rosenberger

FAKRA
HF

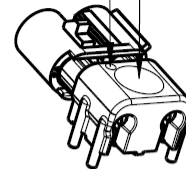
RIGHT ANGLE PLUG
FOR PCB

59S2MB-40MT5-Y

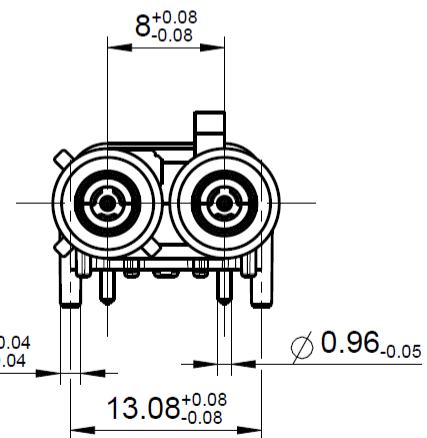
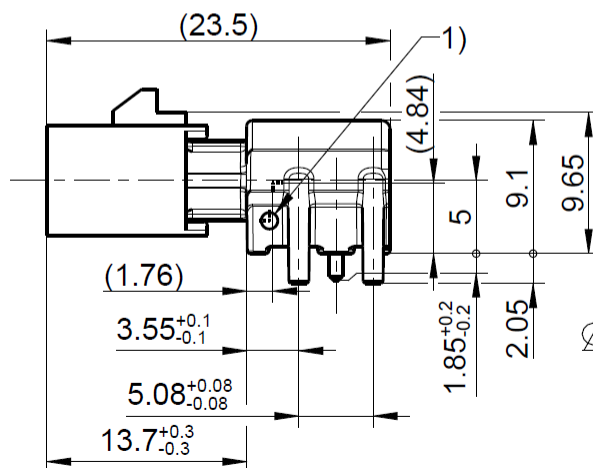


quality inspection marking

suction face



1:1



1) Center of gravity

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
Tape & reel packaging

MB_447
VG229.20000

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 50 Ω footprint	$\geq 24\text{dB}$ (DC to 2,4GHz) $\geq 16\text{dB}$ (2,4GHz to 4GHz) $\geq 13\text{dB}$ (4GHz to 6GHz)
Insertion loss	$\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance	$\geq 1 \times 10^3 \text{ M}\Omega$
Center contact resistance	$\leq 5 \text{ m}\Omega$
Outer contact resistance	$\leq 5 \text{ m}\Omega$
Test voltage	750 V rms
Working voltage	$\leq 60 \text{ V DC}$
Power current	$\leq 1 \text{ A DC}$

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

Mechanical data

Mating cycles	≥ 25
Engagement force	$\leq 65 \text{ N}$ (b)
Disengagement force	$\geq 2 \text{ N}$
Retention force plastic housing	$\geq 110 \text{ N}$
Coding efficiency	$\geq 40 \text{ N}$
Weight	6.65 g/pce

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	acc. IEC 60068-2-58 Group 3 (250 °C / 30 s)
RoHS	compliant

Packing

Standard	200 pcs in tape and reel
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Technical Data Sheet

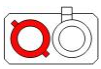
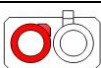
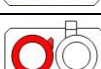
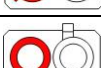
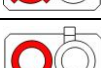
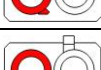
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RIGHT ANGLE PLUG
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59S2MB-40MT5-Y

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

Change history

Rev.	Date	Change
b00	22.11.22	-Value for Engagement force changed from ≤ 40 N to ≤ 65 N.

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	F. Bachmeier	22.11.22	b00	22-1592	G. Watat	22.11.22
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