

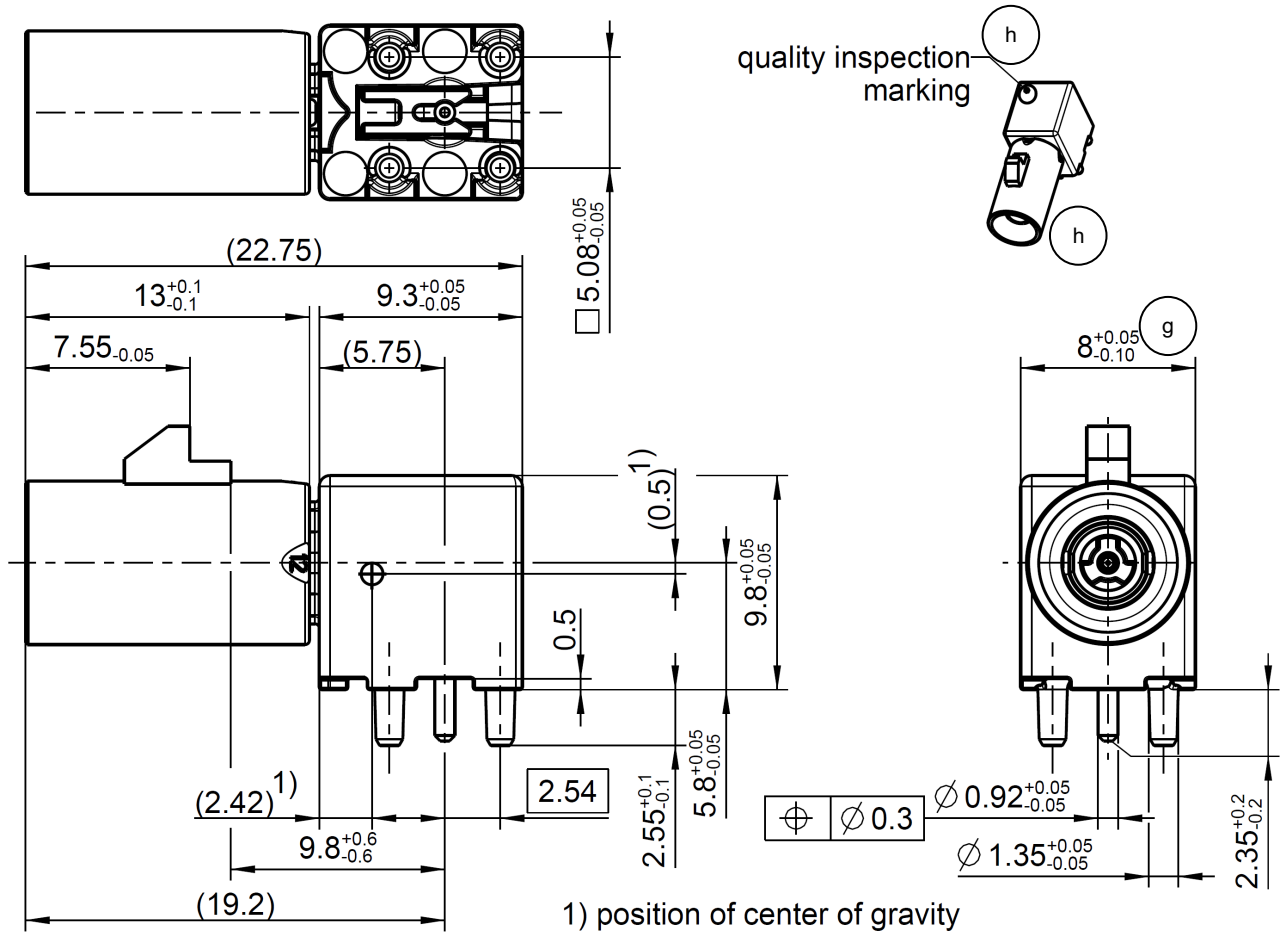
Technical Data Sheet

Rosenberger

FAKRA -
HF

RIGHT ANGLE PLUG
FOR PCB

59S22B-40MT5-Y



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

	Masse / dimensions (mm)			
Bereich / range	0 bis / to 0.5	0.5 bis / to 3	3 bis / to 6	6 bis / to 30
Toleranz / Tolerance (mm)	± 0.05 *)	± 0.1	± 0.1	± 0.2

*) Angabe abweichend zu / Indication deviant to DIN ISO 2768 m-H

Interface

According to

DIN 72594-1, USCAR 17
ISO 20860-1

Documents

PCB layout
Tape and reel packaging

MB_281
VG 179.28800
VG 179.40000

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Zinc alloy
HTN
HTN

Plating

AuroDur®
Tin, 2-6 µm

Electrical data

Impedance 50
Frequency DC to 6 GHz
Return loss ≥ 26 dB, DC to 1 GHz
Insertion loss $\leq 0.1 \times \sqrt{f(\text{GHz})}$ dB
Insulation resistance $\geq 1 \times 10^3$ MΩ
Center contact resistance ≤ 5 mΩ
Outer contact resistance ≤ 5 mΩ
Test voltage 750 V rms
Working voltage ≤ 60 V DC
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 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. to IEC 60068-2-58 group3&4
RoHS compliant

Tooling

N/A

Packing

Standard 50 pcs in blister, 288 pcs in tape & reel,
+400 pcs in tape & reel on request
Weight 4.9 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S22B-40MT5-A
 B	white	sim. 9001	59S22B-40MT5-B
 C	blue	sim. 5005	59S22B-40MT5-C
 D	bordeauxviolet	sim. 4004	59S22B-40MT5-D
 E	green	sim. 6002	59S22B-40MT5-E
 F	brown	sim. 8011	59S22B-40MT5-F
 G	grey	sim. 7031	59S22B-40MT5-G
 H	violet	sim. 4003	59S22B-40MT5-H
 I	beige	sim. 1001	59S22B-40MT5-I
 K	curry	sim. 1027	59S22B-40MT5-K
 L	carmine-red	sim. 3002	59S22B-40MT5-L
 M	pastel-orange	sim. 2003	59S22B-40MT5-M
 N	white-green	sim. 6019	59S22B-40MT5-N
 Z	waterblue	sim. 5021	59S22B-40MT5-Z

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Change History

Rev.	Date	Change
f00	19.10.16	Part number for coding L and N corrected
g00	12.06.19	expanded tolerance of part width, included ISO 20860-1
h00	08.01.20	quality inspection marking added; ≤ 60 V working voltage; coding 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
M. Ruf	23.04.08	M. Brixner	08.01.20	h00	19-1470	B. Gey	08.01.20
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