

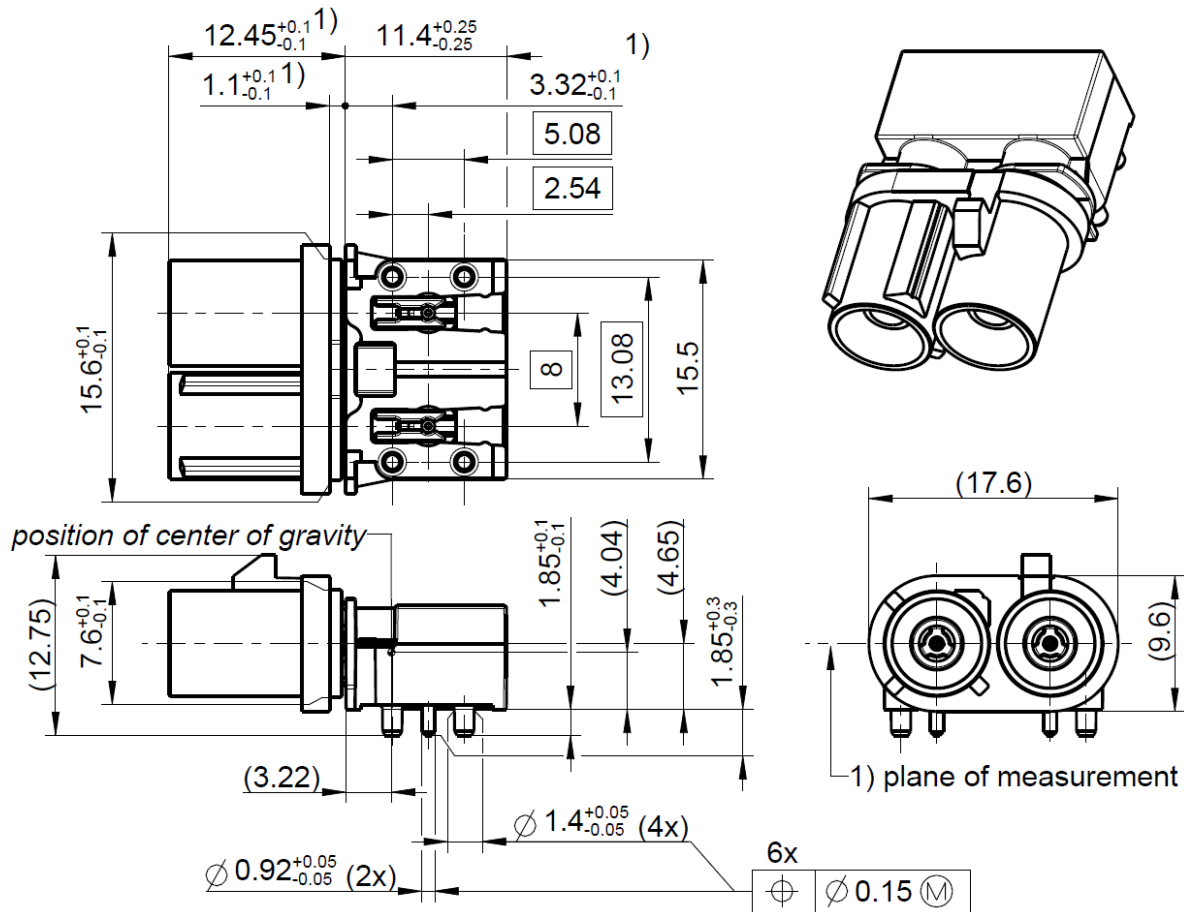
Technical Data Sheet

Rosenberger

FAKRA -
HF

RIGHT ANGLE PLUG
FOR PCB

59S20M-40MT5-Y



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

Documents

PCB layout

MB_602

Tape & reel packaging

VG331.21000

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Zinc alloy
HTN
HTN

Plating

AuroDur®, gold plated
Tin, 2-6 µm

Preliminary

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 21dB (DC to 3GHz)
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	≤ 50 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	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

Tooling

N/A

Packing

Standard	210 pcs in tape & reel
Weight	~ 7,6 g/pce

Preliminary

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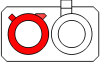


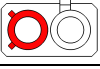
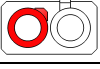









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Coding

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S20M-40MT5-A
 B	white	sim. 9001	59S20M-40MT5-B
 C	blue	sim. 5005	59S20M-40MT5-C
 D	bordeauxviolet	sim. 4004	59S20M-40MT5-D
 E	green	sim. 6002	59S20M-40MT5-E
 F	brown	sim. 8011	59S20M-40MT5-F
 G	grey	sim. 7031	59S20M-40MT5-G
 H	violet	sim. 4003	59S20M-40MT5-H
 I	beige	sim. 1001	59S20M-40MT5-I
 K	curry	sim. 1027	59S20M-40MT5-K
 L	carmine red	sim.3002	59S20M-40MT5-L
 M	pastel orange	sim. 2003	59S20M-40MT5-M
 N	pastel green	sim. 6019	59S20M-40MT5-N
 Z	waterblue	sim. 5021	59S20M-40MT5-Z

Preliminary

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
C. Düh	06.02.2017	C. Düh	02.03.17	100	17-v181	B. Döring	02.03.17

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