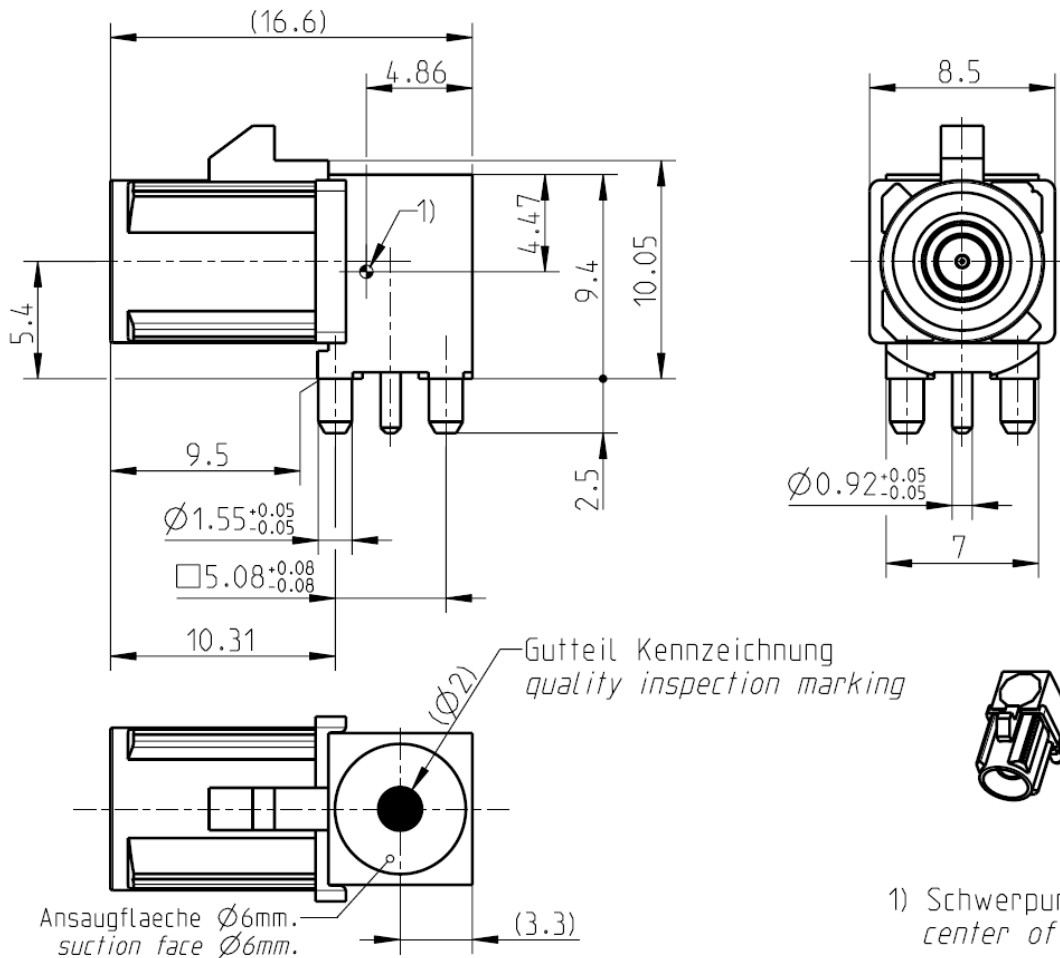


Technical Data Sheet

Rosenberger

FAKRA-HF RIGHT ANGLE PLUG
PCB WITH HOUSING

59S20X-400T5-Y



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to DIN 72594-1

Documents

PCB layout MB 190
Tape & reel packaging VG120.27500

Material and plating

Connector parts

Center contact	Brass
Outer contact	Brass
Dielectric	PA 6.6 T
Cover	Alpaca
Housing	HTN

Plating

AuroDur®, gold plated
Tin, 3-6µm, over Nickel

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss measured on 50Ω footprint	≥ 24dB (DC to 2,4GHz) ≥ 18dB (2,4GHz to 4GHz) ≥ 16dB (4GHz to 6GHz)
Insertion loss	≤ 0.1 x √f(GHz) x dB
Insulation resistance	≥ 1x10 ³ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	700 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

- Mechanical data are valid 48h from the end of the soldering process -

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 (RoHS)	acc. IEC 60068-2-58 Group 3&4 compliant

Tooling

N/A

Packing












Standard	50 pcs in blister tray; 150 pcs in blister tray; 275 pcs in tape&reel
Weight	3.88 g/pce

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RF_35/05:10/6.0

Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S20X-400T5_A
 B	white	sim. 9001	59S20X-400T5_B
 C	blue	sim. 5005	59S20X-400T5_C
 D	bordeauxviolet	sim. 4004	59S20X-400T5_D
 E	green	sim. 6002	59S20X-400T5_E
 F	brown	sim. 8011	59S20X-400T5_F
 G	grey	sim. 7031	59S20X-400T5_G
 H	violet	sim. 4003	59S20X-400T5_H
 I	beige	sim. 1001	59S20X-400T5_I
 K	curry	sim. 1027	59S20X-400T5_K
 Z	waterblue	sim. 5021	59S20X-400T5_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
T. Stockhammer	11.09.14	S. Herring	11.09.14	100	14-v501	T. Stockhammer	11.09.14

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