

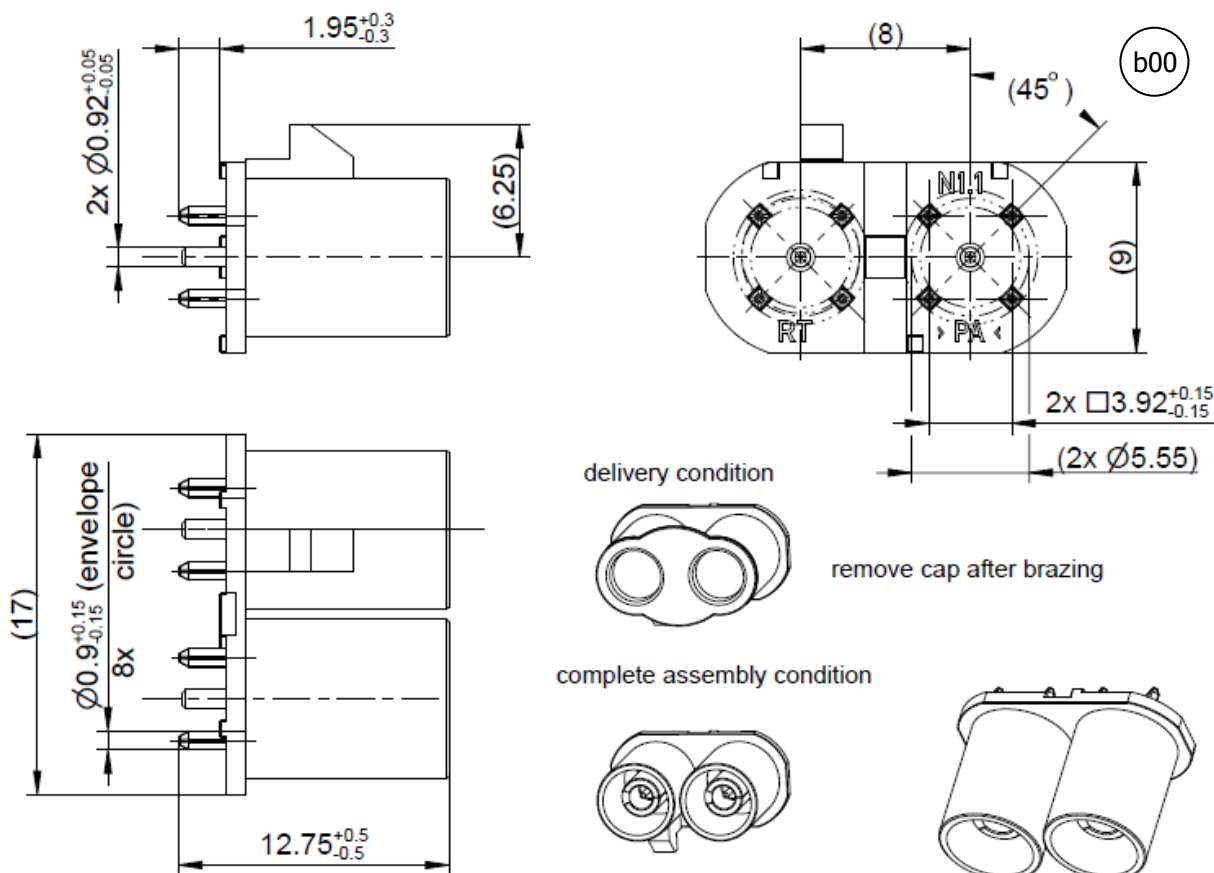
Technical Data Sheet

Rosenberger

FAKRA-
HF

PLUG FOR PCB

59S11K-40MT5-Y



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

Interface

According to

DIN 72594-1, ISO 20860-1

Documents

PCB layout

MB 506

Tape & reel packaging

VG261.26500

Material and plating

Connector parts

Center contact

Outer contact

Housing

Calibration and sucking cap

Material

Brass

Brass

HTN

HTN

Plating

AuroDur®, gold plated

Tin, 3 μm min.

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 23 dB (DC to 4 GHz)
	≥ 20 dB (4 GHz to 6 GHz)
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	≤ 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	≤ 65 N
Disengagement force	≥ 2 N
Coding efficiency	≥ 40 N
Mechanical Pull Test and Sideload Test	acc. to SAE-USCAR-17
Weight	1.76g

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 group 3&4 (250 °C / 30 s)
RoHS	compliant

Packing

Standard	265 pcs on tape & reel
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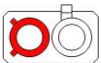
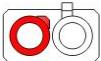
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Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S11K-40MT5-A
 B	white	sim. 9001	59S11K-40MT5-B
 C	blue	sim. 5005	59S11K-40MT5-C
 D	bordeauxviolet	sim. 4004	59S11K-40MT5-D
 E	green	sim. 6002	59S11K-40MT5-E
 F	brown	sim. 8011	59S11K-40MT5-F
 G	grey	sim. 7031	59S11K-40MT5-G
 H	violet	sim. 4003	59S11K-40MT5-H
 I	beige	sim. 1001	59S11K-40MT5-I
 K	curry	sim. 1027	59S11K-40MT5-K
 L	carmine red	sim.3002	59S11K-40MT5-L
 M	pastel orange	sim. 2003	59S11K-40MT5-M
 N	pastel green	sim. 6019	59S11K-40MT5-N
 Z	waterblue	sim. 5021	59S11K-40MT5-Z

Change History

Revision	Description	Position
b00	BOM change housing duplication	Page 1

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
Manfred Ruf	01.09.08	M. Schmid	26.06.26	b00	22-1825	J. Frey	26.06.25
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