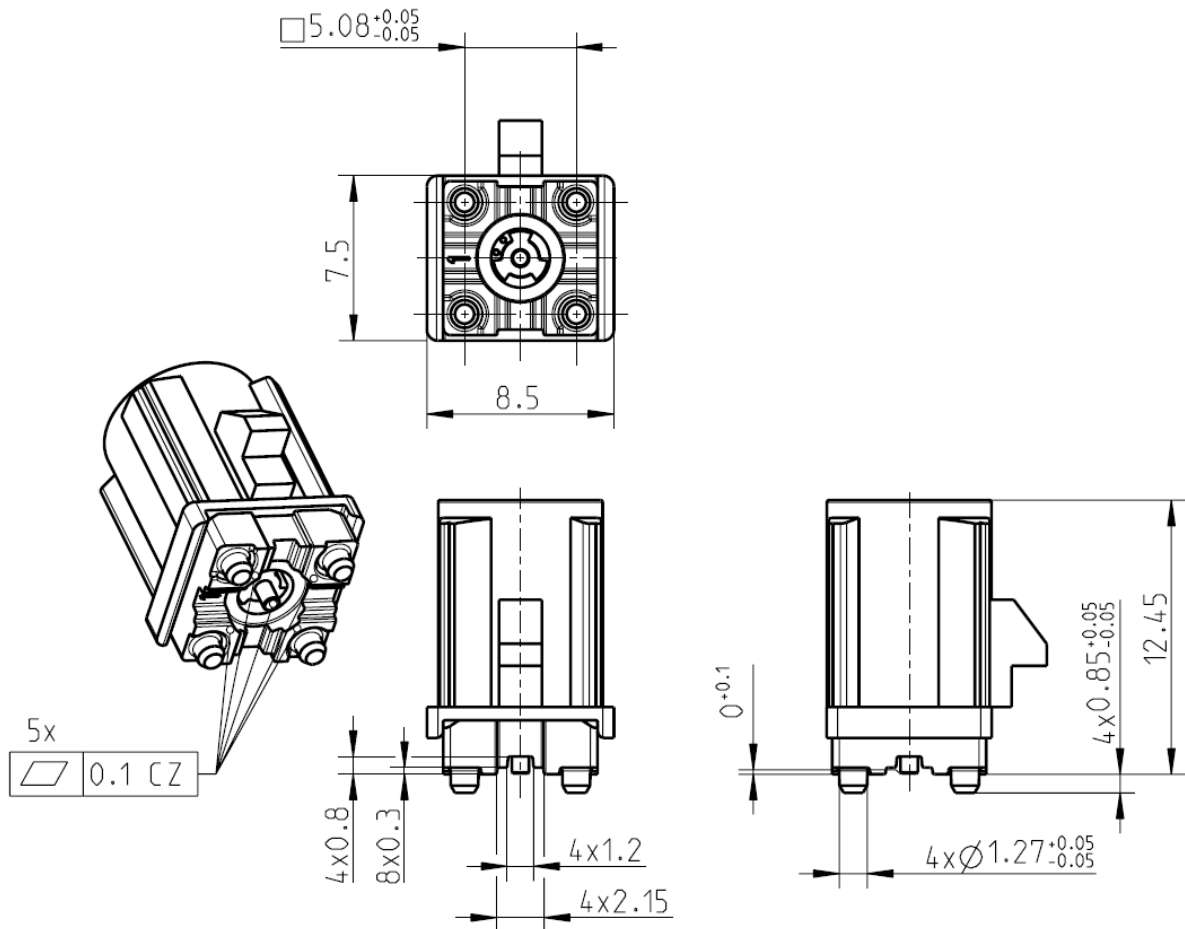




All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

DIN 72594-1

Documents

PCB layout
Tape & reel packaging

MB_480
VG326.20000
VG254.25000



Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Zinc alloy
HTN
HTN

Plating

AuroDur®, gold plated
Tin, 2-6µm

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB, DC to 1 GHz
Insertion loss	≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB
Insulation resistance	≥ 1 x10 ³ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage (at sea level)	750 V rms
Working voltage (at sea level)	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

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

Tooling

N/A

Packing

Standard	200 pcs in tape and reel b
	250 pcs in tape and reel c
Weight	1.26 g/pce d

Technical Data Sheet

Rosenberger

FAKRA-HF

STRAIGHT PLUG
FOR PCB

59S1AC-40MT5-Y

Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S1AC-40MT5-A
 B	white	sim. 9001	59S1AC-40MT5-B
 C	blue	sim. 5005	59S1AC-40MT5-C
 D	bordeauxviolet	sim. 4004	59S1AC-40MT5-D
 E	green	sim. 6002	59S1AC-40MT5-E
 F	brown	sim. 8011	59S1AC-40MT5-F
 G	grey	sim. 7031	59S1AC-40MT5-G
 H	violet	sim. 4003	59S1AC-40MT5-H
 I	beige	sim. 1001	59S1AC-40MT5-I
 K	curry	sim. 1027	59S1AC-40MT5-K
 L	carmine-red	sim. 3002	59S1AC-40MT5-L
 M	pastell-orange	sim. 2003	59S1AC-40MT5-M
 N	white-green	sim. 6019	59S1AC-40MT5-N
 Z	waterblue	sim. 5021	59S1AC-40MT5-Z

Change History

Rev.	Date	Change
b00	03.01.2017	new VG 326.20000 / Packaging quantity from 250 to 200
c00	08.03.2017	additional VG 254.25000 and packaging quantity of 250
d00	25.11.2020	changed weight from 4.17 g to correct value of 1.26 g

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
A. Zaan	13.02.14	M. Brixner	25.11.20	d00	20-2213	M. Jacobs	25.11.20
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