

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

Interface

According to DIN 72594-1

Documents

PCB layout MB_355; MB_172
Tape & reel packaging VG121.30000

Material and plating

Connector parts

- Center contact
- Center contact alternative
- Outer contact
- Dielectric
- Housing

Material

- Brass
- Spring bronze
- Zinc alloy
- PA6T/66
- HTN

Plating

- AuroDur®, gold plated
- AuroDur®, gold plated
- Tin, 2-5 µm, over Nickel 1-5µm

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RF_35/05.10/6.0

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 26 dB, DC to 1 GHz
Insertion loss	≤ 0.1 x √f(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	≤ 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	acc. IEC 60068-2-58 Group 3&4
RoHS	compliant

Tooling

N/A

Packing















Standard	300 pcs in tape & reel
Weight	2,4 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	59S2AQ-40MT5-A
 B	white	sim. 9001	59S2AQ -40MT5-B
 C	blue	sim. 5005	59S2AQ -40MT5-C
 D	bordeauxviolet	sim. 4004	59S2AQ -40MT5-D
 E	green	sim. 6002	59S2AQ -40MT5-E
 F	brown	sim. 8011	59S2AQ -40MT5-F
 G	grey	sim. 7031	59S2AQ -40MT5-G
 H	violet	sim. 4003	59S2AQ -40MT5-H
 I	beige	sim. 1001	59S2AQ-40MT5-I
 K	curry	sim. 1027	59S2AQ-40MT5-K
 L	carmine-red	sim. 3002	59S2AQ-40MT5-L
 M	pastel-orange	sim. 2003	59S2AQ-40MT5-M
 N	white-green	sim. 6019	59S2AQ-40MT5-N
 Z	waterblue	sim. 5021	59S2AQ-40MT5-Z

Change History

Rev.	Date	Change
d00	30.10.13	Dimension changed from 0,05±0,1 to 0,01±0,1
e00	20.03.14	- Dimension changed from 0,01±0,1 to 0,05±0,1 - Environmental data specification changed from "2002/95/EC (RoHS)" to "RoHS" - Environmental data specification changed from "DIN 72594-2 clause 6.x" to "...8.x"
f00	24.04.14	- Dimension changed back to rev. d00

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. Höfling	28.10.09	S. Hering	24.04.14	f00	14-0599	N. Naus	24.04.14
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