



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

Interface

According to ISO 20860-1

Documents

PCB layout MB_355; MB_172
Tape & reel packaging VG255.43000

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Zinc alloy
HTN
HTN

Plating

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 $\sqrt{f(\text{GHz})}$ 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	≤ 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
Storage temperature range	0 – 23°C
Humidity range	max. 50%
RoHS	compliant

Tooling

N/A

Packing

Standard	430 pcs in tape & reel
Weight	2,4 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S2AQ-40MT5-A_1
 B	white	sim. 9001	59S2AQ -40MT5-B_1
 C	blue	sim. 5005	59S2AQ -40MT5-C_1
 D	bordeauxviolet	sim. 4004	59S2AQ -40MT5-D_1
 E	green	sim. 6002	59S2AQ -40MT5-E_1
 F	brown	sim. 8011	59S2AQ -40MT5-F_1
 G	grey	sim. 7031	59S2AQ -40MT5-G_1
 H	violet	sim. 4003	59S2AQ -40MT5-H_1
 I	beige	sim. 1001	59S2AQ-40MT5-I_1
 K	curry	sim. 1027	59S2AQ-40MT5-K_1
 L	carmine-red	sim. 3002	59S2AQ-40MT5-L_1
 M	pastel-orange	sim. 2003	59S2AQ-40MT5-M_1
 N	white-green	sim. 6019	59S2AQ-40MT5-N_1
 Z	waterblue	sim. 5021	59S2AQ-40MT5-Z_1

Change History

Rev.	Date	Change
b00	08.10.14	base dimensions in drawing
c00	03.11.14	packing changed from 460 to 430 pcs in tape & reel Tape & reel packaging changed from VG255.46000 to VG255.43000
d00	19.11.14	Added Storage temperature range: 0 – 23°C; And Humidity range: max. 50%

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Bieberbach	19.09.14	S. Hering	19.11.14	d00	14-1538	T. Stockhammer	19.11.2014

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