

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 1-5 µm

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/05.10/6.2

**Electrical data**

Impedance	50 Ω	
Frequency	DC to 6 GHz	
Return loss	≥ 26 dB (DC to 1 GHz)	(f)
	≥ 23 dB (DC 1 to 2.4 GHz)	
	≥ 20 dB (DC 2.4 to 4 GHz)	
	≥ 15 dB (DC 4 to 6 GHz)	
Insertion loss	≤ 0.15 x dB	
Insulation resistance	≥ 1x10 <sup>3</sup> 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	(e)

**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. to IEC 60068-2-58 Group 3&4	(d) (e) (f)
RoHS	compliant	

**Tooling**

N/A

**Packing**

Standard	430 pcs in tape & reel
Weight	2.4 g (f)

**Storage condition**















Moisture Sensitivity Level	2 (e)
----------------------------	-------

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/05.10/6.2

**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	claret violet	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	pastel green	sim. 6019	59S2AQ-40MT5-N_1
 Z	waterblue	sim. 5021	59S2AQ-40MT5-Z_1

(f)

**Change History**

Rev.	Date	Change
d00	19.11.14	-added storage temperature range: 0 – 23°C; -and humidity range: max. 50%
e00	02.03.16	-deleted storage temperature range: 0 – 23°C; humidity range: max. 50% and mechanical data are valid 48h from the end of the soldering process -added Storage condition, MSL2
f00	15.02.19	- Adaption of electrical data according to test results - Minor editorial changes

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
M. Bieberbach	19.09.14	C. Wagner	18.02.19

Rev.	Engineering change number	Name	Date
f00	19-0328	J. Frey	18.02.19