

All dimensions are in mm; tolerances according to ISO 2768 m-H  
Y = Part number has to be accomplished by codification

**Interface**

According to DIN 72594-1

**Documents**

Assembly instruction MA\_59V032  
PCB layout MB\_172  
Tape & reel packaging VG47.50000

**Material and plating**

**Connector parts**

Center contact  
Outer contact  
Dielectric  
Housing

**Material**

Brass  
Brass  
PA6T/66  
PA6T/66

**Plating**

AuroDur®, gold plated  
AuroDur®, gold plated

**Electrical data**

Impedance	50
Frequency	DC to 6 GHz
Return loss measured on 50Ω footprint	≥ 26dB (DC to 4GHz) ≥ 17dB (4GHz to 6GHz)
Insertion loss	≤ 0.1 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

**Environmental data**

Temperature range	-40°C to +105°C
Thermal shock	DIN 72594-2 clause 6.2
Temperature and humidity	DIN 72594-2 clause 6.3
Vibration and mechanical shock	DIN 72594-2 clause 6.1
Dry heat	DIN 72594-2 clause 6.4
Soldering profile	acc. to IEC 60068-2-58; Group 3&4
2002/95/EC (RoHS)	compliant

**Tooling**















N/A

**Packing**

Standard	500 pcs in tape & reel
Weight	2,42 g/pce

**Coding**

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S20X-40ML5_A
 B	white	sim. 9001	59S20X-40ML5_B
 C	blue	sim. 5005	59S20X-40ML5_C
 D	bordeauxviolet	sim. 4004	59S20X-40ML5_D
 E	green	sim. 6002	59S20X-40ML5_E
 F	brown	sim. 8011	59S20X-40ML5_F
 G	grey	sim. 7031	59S20X-40ML5_G
 H	violet	sim. 4003	59S20X-40ML5_H
 I	beige	sim. 1001	59S20X-40ML5_I
 K	curry	sim. 1027	59S20X-40ML5_K
 L	carmine-red	sim. 3002	59S20X-40ML5_L
 M	pastel-orange	sim. 2003	59S20X-40ML5_M
 N	white-green	sim. 6019	59S20X-40ML5_N
 Z	waterblue	sim. 5021	59S20X-40ML5_Z

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
Thomas Höfling	20/07/07	Thomas Höfling	03/12/09	e00	09-0830	Inge Mühlauer	03/12/09