

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	≥ 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

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	59S2LX-40ML5-A
 B	white	sim. 9001	59S2LX-40ML5-B
 C	blue	sim. 5005	59S2LX-40ML5-C
 D	bordeauxviolet	sim. 4004	59S2LX-40ML5-D
 E	green	sim. 6002	59S2LX-40ML5-E
 F	brown	sim. 8011	59S2LX-40ML5-F
 G	grey	sim. 7031	59S2LX-40ML5-G
 H	violet	sim. 4003	59S2LX-40ML5-H
 I	beige	sim. 1001	59S2LX-40ML5-I
 K	curry	sim. 1027	59S2LX-40ML5-K
 L	carmine-red	sim. 3002	59S2LX-40ML5-L
 M	pastel-orange	sim. 2003	59S2LX-40ML5-M
 N	white-green	sim. 6019	59S2LX-40ML5-N
 Z	waterblue	sim. 5021	59S2LX-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
Höfling, Thomas	07/11/07	Thomas Höfling	02/02/09	b00	09-0013	Uwe Winkler	07/01/09