

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_59V054
 PCB layout MB 187
 Tape & reel packaging VG_75.20000

Material and plating

Connector parts

Center contact	Material	Brass
Outer contact		Zinc alloy
Body		Zinc alloy
Dielectric		PA 6.6T
Housing		PA 6T/66

Plating

AuroDur®, gold plated
 Nickel, 2.5-5 µm
 Tin, 2-5 µm, over Nickel 1-5µm

Electrical data

Impedance	50 Ω
Frequency	DC to 6GHz
Return loss measured on 50Ω footprint	≥ 24dB (DC to 2,4GHz) ≥ 16dB (2,4GHz to 4GHz)
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 plastic housing	≥ 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. IEC 60068-2-58 group 3&4
2002/95/EC (RoHS)	compliant












Tooling

N/A

Packing

Standard	50 pcs in blister tray (alternative packaging 50 pcs in blister tray)
Weight	9.8 g/pce

Coding

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S2AA-400A5-A
 B	white	sim. 9001	59S2AA-400A5-B
 C	blue	sim. 5005	59S2AA-400A5-C
 D	bordeauxviolet	sim. 4004	59S2AA-400A5-D
 E	green	sim. 6002	59S2AA-400A5-E
 F	brown	sim. 8011	59S2AA-400A5-F
 G	grey	sim. 7031	59S2AA-400A5-G
 H	violet	sim. 4003	59S2AA-400A5-H
 I	beige	sim. 1001	59S2AA-400A5-I
 K	curry	sim. 1027	59S2AA-400A5-K
 Z	waterblue	sim. 5021	59S2AA-400A5-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	13/06/07	Thomas Höfling	09/08/10	g00	10-0611	Lang Michael	09/08/10

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