

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

Interface

According to

DIN 72594-1, ISO 20860-1



Documents

PCB layout
T&R packaging
Tray packaging

MB_296
VG256.13500
VK15.00720



Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Brass
PA
HTN

Plating

AuroDur®, gold plated
Cu 0,5-2,5 µm, Ni 1-2 µm, Tin 3-6 µm



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Electrical data

Impedance	50 Ω	
Frequency	DC to 6 GHz	
Return loss	≥ 26 dB, DC to 4 GHz	(c)
	≥ 14 dB, 4 GHz – 6 GHz	
Insertion loss	≤ 0.1 x √f(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 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
RoHS	compliant

Packing















Standard	135 pcs in tape & reel	
	180 pcs in tray	(c)
Weight	2.9 g	

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Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S10M-40MT5_A
 B	white	sim. 9001	59S10M-40MT5_B
 C	blue	sim. 5005	59S10M-40MT5_C
 D	bordeauxviolet	sim. 4004	59S10M-40MT5_D
 E	green	sim. 6002	59S10M-40MT5_E
 F	brown	sim. 8011	59S10M-40MT5_F
 G	grey	sim. 7031	59S10M-40MT5_G
 H	violet	sim. 4003	59S10M-40MT5_H
 I	beige	sim. 1001	59S10M-40MT5_I
 K	curry	sim. 1027	59S10M-40MT5_K
 L	carmine-red	sim. 3002	59S10M-40MT5-L
 M	pastell-orange	sim. 2003	59S10M-40MT5-M
 N	white-green	sim. 6019	59S10M-40MT5-N
 Z	waterblue	sim. 5021	59S10M-40MT5_Z

(c)

Change History

Rev.	Date	Change
c00	12.12.18	Interface - added ISO 20860-1 Documents - added T&R packing VG 256.135000 - added Tray packing VK15.00720 Electrical data -Return loss changed from ≥ 26 dB, DC to 1 GHz to ≥ 26 dB, DC to 4 GHz and ≥ 14 dB, 4 GHz – 6 GHz deleted sections "Tooling" and "Suitable cables" Packing - Standard changed from 180 pcs in blistertray and 135 pcs in tape&reel to 135 pcs in tape&reel and 180 pcs in tray - Weight changed from 2,9 g/pcs to 2,9 g Coding - added coding L, M and N
d00	07.03.19	- Plating Outer contact changed from Cu 0,5 μ m, Tin 4-6 μ m to Cu 0,5-2,5 μ m, Tin 3-6 μ m

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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