

All dimensions are in mm

Interface

According to ISO 20860-1

Documents

PCB layout MB_581 (MB_355*; MB_172*)
Tape & reel packaging VG328.25000

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

*) Do not apply for new application

Electrical data

Impedance	50 Ω
Frequency	DC to 6 GHz
Return loss	≥ 27 dB, DC to 1 GHz ≥ 20 dB, 1 to 3 GHz ≥ 17 dB, 3 to 6 GHz
Insertion loss	≤ 0.1 x √f(GHz) dB
Insulation resistance	≥ 1 x10 ³ MΩ
Center contact resistance	≤ 5 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage (at sea level)	750 V rms
Working voltage (at sea level)	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
Mechanical Pull Test and Sideload Test	SAE-USCAR-17 clause 4.2.1.

Environmental data

Temperature range	-40°C to 105°C
Thermal shock	ISO 20860-2 clause 9.2
Temperature and humidity	ISO 20860-2 clause 9.3
Vibration and mechanical shock	ISO 20860-2 clause 9.1
Dry heat	ISO 20860-2 clause 9.4
Soldering profile	acc. IEC 60068-2-58, group 3 (250°C/30s)
RoHS	compliant

Packing















Standard	250 pcs in tape & reel
Weight	3.5 g/pc

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RF_35/09_14/6.2

Coding

Part Number has to be accomplished by codification

Coding	Color	RAL	Part-Number
 A	black	sim. 9005	59S2UL-40MT5-A
 B	white	sim. 9001	59S2UL-40MT5-B
 C	blue	sim. 5005	59S2UL-40MT5-C
 D	bordeauxviolet	sim. 4004	59S2UL-40MT5-D
 E	green	sim. 6002	59S2UL-40MT5-E
 F	brown	sim. 8011	59S2UL-40MT5-F
 G	grey	sim. 7031	59S2UL-40MT5-G
 H	violet	sim. 4003	59S2UL-40MT5-H
 I	beige	sim. 1001	59S2UL-40MT5-I
 K	curry	sim. 1027	59S2UL-40MT5-K
 L	carmine-red	sim. 3002	59S2UL-40MT5-L
 M	pastel-orange	sim. 2003	59S2UL-40MT5-M
 N	white-green	sim. 6019	59S2UL-40MT5-N
 Z	waterblue	sim. 5021	59S2UL-40MT5-Z

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Bieberbach	05.07.16	C. Wagner	12.07.17	600	17-0997	C. Schulz	12.07.17