

All dimensions are in mm

Interface

According to

RN 108-02

Documents

PCB layout
T&R packaging

MB_929
VG411.18500

Material and plating

Connector parts

Center contact
Outer contact (Interface)
Outer contact (PCB)
Dielectric
Housing

Material

Brass
Bronze
Zinc alloy
LCP
HTN

Plating

AuroDur®, gold plated, 0.15 μ m
Tin, min. 1.5 μ m
Tin, min. 2 μ m

quality inspection marking

Electrical data

Impedance	50 Ω
Frequency	DC to 9 GHz
Return loss	≥ 25 dB, DC to ≤ 3 GHz ≥ 20 dB, > 3 GHz to ≤ 6 GHz ≥ 12 dB, > 6 GHz to ≤ 9 GHz
Insertion loss	≤ 0.1 x √f(GHz) dB
Insulation resistance	≥ 1x10 ³ MΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	≤ 800 V rms
Working voltage	≤ 60 V rms
Power current	≤ 1 A DC
Cross talk (optional)	≤ -60 dB up to 10 GHz

– Connector only, VSWR in application depends decisive on PCB layout –

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N*
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 150 N
Weight	3.0 g

* according to USCAR 25 Rev. 3, tests specified in USCAR 17 Rev. 5 TG-G

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. to IEC 60068-2-58; Group 3 (250 °C / 30 s)
RoHS	compliant

Packing








Standard	1.480 pcs (185 pcs in tape & reel, 8 reels in box)
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RF_35/09.14/6.2

Coding

Part number has to be accomplished by codification

Coding	Color	RAL	Part-Number-RT
 A	black	sim. 9005	AMS19B-40MZ5-A
 B	white	sim. 9010	AMS19B-40MZ5-B
 C	blue	sim. 5012	AMS19B-40MZ5-C
 D	claret violet	sim. 4004	AMS19B-40MZ5-D
 E	green	sim. 6017	AMS19B-40MZ5-E
 F	brown	sim. 8011	AMS19B-40MZ5-F
 Z	waterblue	sim. 5021	AMS19B-40MZ5-Z

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Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
T. Georg	24.02.19	T. Georg	25.10.22	a00	22-s222	L. Türk	25.10.22