



All dimensions are in mm

Interface

According to RN 108-04

Documents

PCB layout MB_639
T&R packaging VG496.18500

Material and plating

Connector parts

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

Material

Bronze
Bronze
Zinc alloy
LCP
HTN

Plating

Gold, min. 0.15 µm, over nickel
Tin, min. 1.5 µm
Tin, min. 2 µm

Electrical data

Impedance	50 Ω
Frequency	DC to 9 GHz
Return loss	≥ 25 dB, DC ≤ 3 GHz ≥ 20 dB, > 3 GHz ≤ 6 GHz ≥ 12 dB, > 6 GHz ≤ 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	≤ -60 dB up to 4 GHz ≤ -50 dB up to 9 GHz

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

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 45 N*
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 150 N

* 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	185 pcs in tape & reel, 50 pcs in tray
Weight	3.8 g

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Coding

Part number has to be accomplished by codification

Coding	Color	RAL	Part-Number-RT	
	A	black	sim. 9005	AMS19D-40MZ5-A
	B	white	sim. 9010	AMS19D-40MZ5-B
	C	blue	sim. 5012	AMS19D-40MZ5-C
	D	claret violet	sim. 4004	AMS19D-40MZ5-D
	E	green	sim. 6017	AMS19D-40MZ5-E
	F	brown	sim. 8011	AMS19D-40MZ5-F
	Z	waterblue	sim. 5021	AMS19D-40MZ5-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
M. Bieberbach	05.03.19	F. Bachmeier	11.04.23	a00	23-s076	G. Watat	11.04.23