

All dimensions are in mm

Interface

According to RN_108-01

Documents

PCB layout MB_603
T&R packaging VG443.28000

Material and plating

Connector parts

Connector parts	Material	Plating
Center contact	Bronze	Gold, min. 0.15 µm, over nickel
- Interface		Tin, min. 0.5 µm, over nickel
- PCB		Tin, min. 1.5 µm
Outer contact (Interface)	Bronze	Tin, min. 2 µm
Outer contact (PCB)	Zinc alloy	
Dielectric	LCP	
Housing	HTN	

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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	≤ 15 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	≤ 800 V rms
Working voltage	≤ 60 V DC
Power current	≤ 1 A DC

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

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 15 N*
Disengagement force	≥ 2 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 150 N
Weight	3.13 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
Resistance to soldering heat	acc. to IEC 60068-2-58; Group 3 (250 °C / 30 s)
RoHS	compliant

Packing


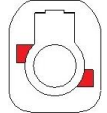



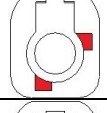
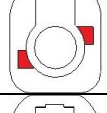
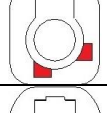
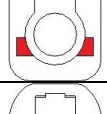

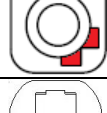

Standard	2.240 pcs (280 pcs in tape & reel, 8 reels in box)
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Coding

Part number has to be accomplished by codification

Coding	Color	RAL	Part-Number-RT
 A	black	sim. 9005	AMS2RA-40MZ5-A
 B	white	sim. 9010	AMS2RA-40MZ5-B
 C	blue	sim. 5012	AMS2RA-40MZ5-C
 D	claret violet	sim. 4004	AMS2RA-40MZ5-D
 E	green	sim. 6017	AMS2RA-40MZ5-E
 F	brown	sim. 8011	AMS2RA-40MZ5-F
 G	grey	sim. 7036	AMS2RA-40MZ5-G
 H	light pink	sim. 3015	AMS2RA-40MZ5-H
 J	beige	sim. 1001	AMS2RA-40MZ5-J
 K	curry	sim. 1027	AMS2RA-40MZ5-K
 N	pastel green	sim. 6019	AMS2RA-40MZ5-N
 Z	waterblue	sim. 5021	AMS2RA-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
T. Georg	08.01.20	T. Georg	30.03.2022	a00	22-s060	G. Lisowski	30.03.2022