

All dimensions are in mm

**Interface**

According to RN\_108-01

**Documents**

PCB layout MB\_603  
T&R packaging VG407.31000

**Material and plating**

**Connector parts**

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

**Material**

- Bronze
- Bronze
- Zinc alloy
- LCP
- HTN

**Plating**

- Gold, min. 0.15  $\mu$ m, over nickel
- Tin, min. 0.5  $\mu$ m, over nickel
- Tin, min. 1.5  $\mu$ m
- Tin, min. 2  $\mu$ m

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RF\_35/09\_14/6.2

**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 <sup>3</sup> 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**





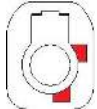
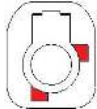
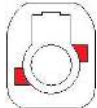
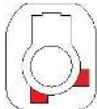
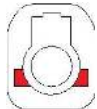
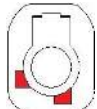


Standard	2.480 pcs (310 pcs in tape & reel, 8 reels in box)
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RF\_35/09.14/6.2

**Coding**

Part number has to be accomplished by codification

Coding	Color	RAL	Part-Number-RT
 A	black	sim. 9005	AMS29A-40MZ5-A
 B	white	sim. 9010	AMS29A-40MZ5-B
 C	blue	sim. 5012	AMS29A-40MZ5-C
 D	claret violet	sim. 4004	AMS29A-40MZ5-D
 E	green	sim. 6017	AMS29A-40MZ5-E
 F	brown	sim. 8011	AMS29A-40MZ5-F
 G	grey	sim. 7036	AMS29A-40MZ5-G
 H	light pink	sim. 3015	AMS29A-40MZ5-H
 J	beige	sim. 1001	AMS29A-40MZ5-J
 K	curry	sim. 1027	AMS29A-40MZ5-K
 N	pastel green	sim. 6019	AMS29A-40MZ5-N
 Z	waterblue	sim. 5021	AMS29A-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	14.02.19	T. Georg	30.03.2022	a00	22-s060	G. Lisowski	30.03.2022