

All dimensions are in mm

### Interface

According to

RN\_108-04

### Documents

PCB layout  
Tape & Reel packaging

MB\_604  
VG361.17500

### Material and plating

#### Connector parts

Center contact  
-Interface  
-PCB  
Outer contact 1 (Interface)  
Outer contact 2 (PCB)  
Outer contact sheet  
Dielectric  
Housing

#### Material

Bronze  
  
Bronze  
Zinc alloy  
Bronze  
LCP  
PA-GF50

#### 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  
Tin, min. 3  $\mu$ m

**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 $\sqrt{f(\text{GHz})}$ 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
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	≤ 45 N*
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 200 N

\* according to USCAR 25 Rev. 3 and the 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

**Tooling**

N/A

**Packing**

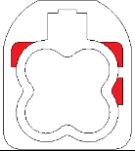
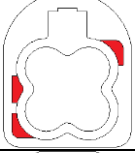
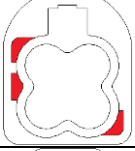
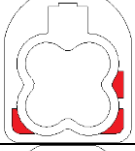
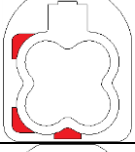
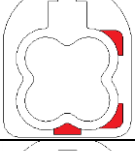
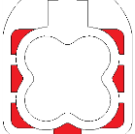
Standard (optional)	50 pcs. in Blister 175 pcs. Tape & Reel
Weight	7.75 g

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RF\_35/09.14/6.2

**Coding**

Part Number must be accomplished by codification

Coding	Color	RAL	Part-Number-RT
 A	black	sim. 9005	AMS22D-40MZ5-A
 B	white	sim. 9010	AMS22D-40MZ5-B
 C	blue	sim. 5012	AMS22D-40MZ5-C
 D	claret violet	sim. 4004	AMS22D-40MZ5-D
 E	green	sim. 6017	AMS22D-40MZ5-E
 F	brown	sim. 8011	AMS22D-40MZ5-F
 Z	waterblue	sim. 5021	AMS22D-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
A. Krejber	27.04.16	F. Bachmeier	19.03.20	905	20-0260	M. Mamou	19.03.20

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