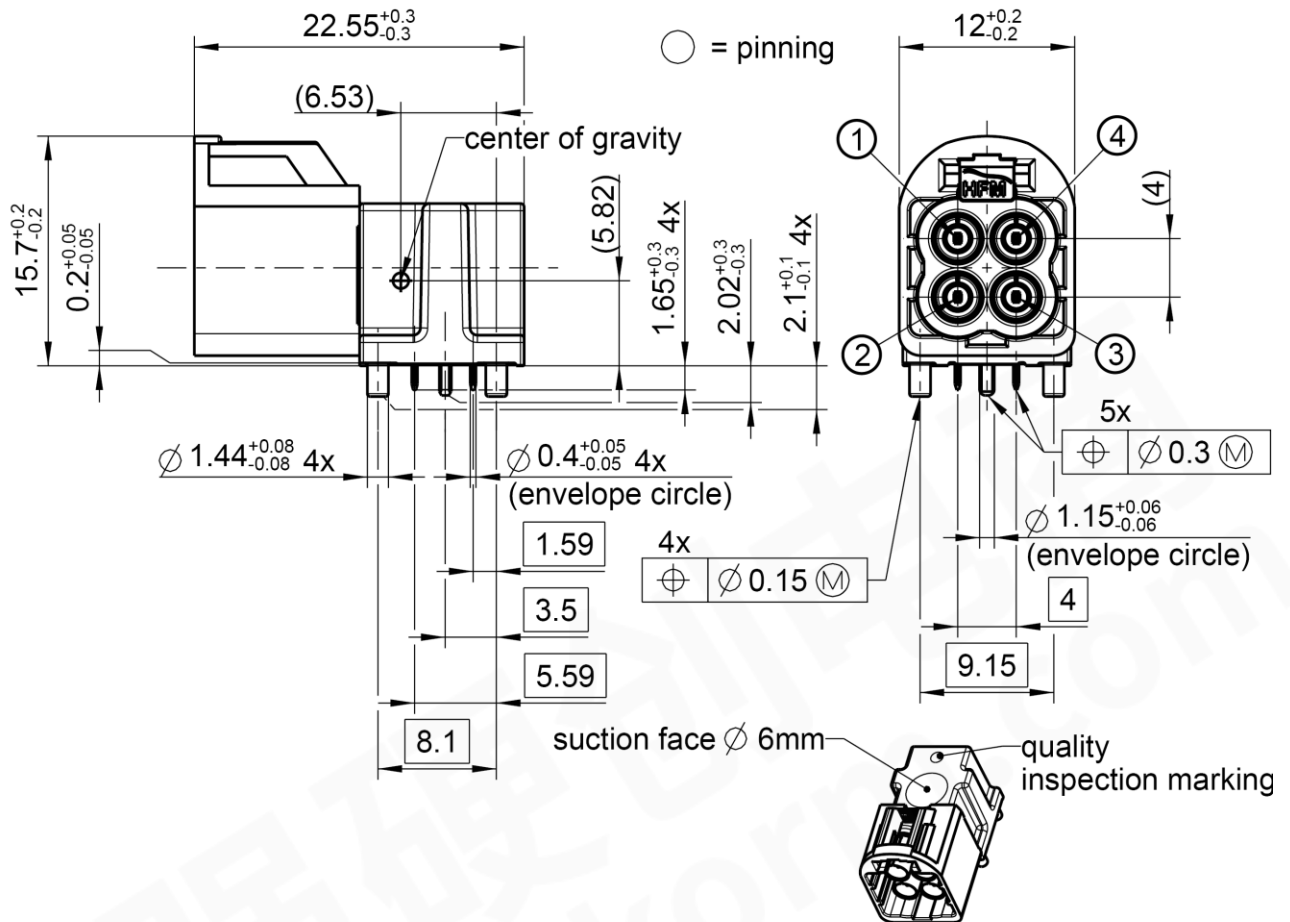




All dimensions are in mm

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 µm, over nickel
Tin, min. 0.5 µm, over nickel
Tin, min. 1.5 µm
Tin, min. 2 µm
Tin, min. 3 µm

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 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
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

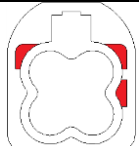
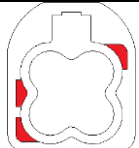
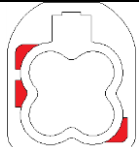
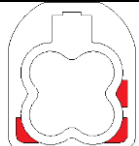
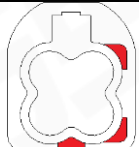
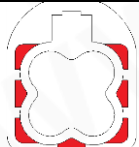
N/A

Packing

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

Coding

Part Number must be accomplished by codification

Coding		Color	RAL	Part-Number-RT
	A	black	sim. 9005	<u>AMS22D-40MZ5-A</u>
	B	white	sim. 9010	<u>AMS22D-40MZ5-B</u>
	C	blue	sim. 5012	<u>AMS22D-40MZ5-C</u>
	D	claret violet	sim. 4004	<u>AMS22D-40MZ5-D</u>
	E	green	sim. 6017	<u>AMS22D-40MZ5-E</u>
	F	brown	sim. 8011	<u>AMS22D-40MZ5-F</u>
	Z	waterblue	sim. 5021	<u>AMS22D-40MZ5-Z</u>

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