

All dimensions are in mm

Interface

According to RN_108-03

Documents

PCB layout MB_793
T&R packaging VG409.18500

Material and plating

Connector parts

	Material
Center contact	Bronze
- Interface	
- PCB	
Outer contact (Interface)	Bronze
Outer contact (PCB)	Zinc alloy
Outer contact sheet	Bronze
Dielectric	LCP
Housing	HTN

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 √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
RF-leakage (optional)	≤ -60 dB up to 10 GHz

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

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N*
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N
Coding efficiency	≥ 150 N
Weight	5.84 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
Soldering profile	acc. to IEC 60068-2-58; Group 3 (250 °C / 30 s)
RoHS	compliant

Packing


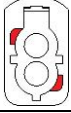





Standard (optional)	1.110 pcs (185 pcs in tape & reel, 6 reels in box)
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RF_35/09.14/6.2

Coding

Part number has to be accomplished by codification

Coding	Color	RAL	Part-Number-RT	
	A	black	sim. 9005	AMS29C-40MZ5-A
	B	white	sim. 9010	AMS29C-40MZ5-B
	C	blue	sim. 5012	AMS29C-40MZ5-C
	D	claret violet	sim. 4004	AMS29C-40MZ5-D
	E	green	sim. 6017	AMS29C-40MZ5-E
	F	brown	sim. 8011	AMS29C-40MZ5-F
	Z	waterblue	sim. 5021	AMS29C-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	20.02.19	T. Georg	02.03.2022	a00	22-s069	G. Lisowski	02.03.2022

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