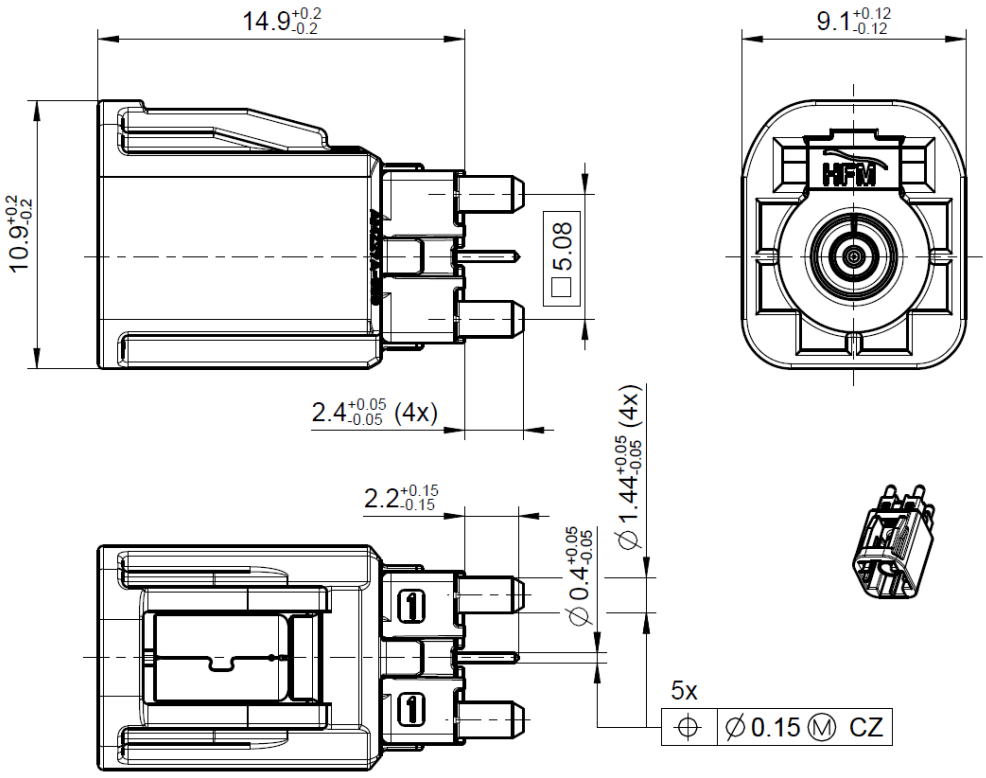
HFM®
High-Speed FAKRA Mini

STRAIGHT PLUG
PCB WITH HOUSING

AMS19A-40MZ5-Y



All dimensions are in mm

Preliminary

Interface

According to	RN_108-01

Documents

PCB layout	MB_926
T&R packaging	VG410.18500

Material and plating

Connector parts	**Material**	**Plating**
Center contact	Brass	AuroDur®, gold plated, 0.15 µm
Outer contact (Interface)	Bronze	Tin, min. 1.5 µm
Outer contact (PCB)	Zinc alloy	Tin, min. 2 µm
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 $\sqrt{f(GHz)}$ dB
Insulation resistance	≥ 1x10^3 MΩ
Center contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 5 mΩ
Test voltage	≤ 800 V rms
Working voltage	≤ 60 V rms
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	1.97 g

Preliminary

** 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	185 pcs in tape & reel

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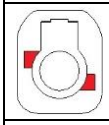
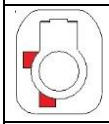
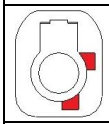
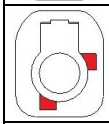
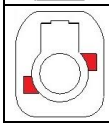
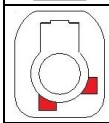
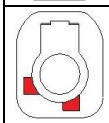
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Coding

Part number has to be accomplished by codification

Preliminary

Coding		Color	RAL	Part-Number-RT
	A	black	sim. 9005	AMS19A-40MZ5-A
	B	white	sim. 9010	AMS19A-40MZ5-B
	C	blue	sim. 5012	AMS19A-40MZ5-C
	D	claret violet	sim. 4004	AMS19A-40MZ5-D
	E	green	sim. 6017	AMS19A-40MZ5-E
	F	brown	sim. 8011	AMS19A-40MZ5-F
	G	grey	sim. 7036	AMS19A-40MZ5-G
	H	light pink	sim. 3015	AMS19A-40MZ5-H
	J	beige	sim. 1001	AMS19A-40MZ5-J
	K	curry	sim. 1027	AMS19A-40MZ5-K
	N	pastel green	sim. 6019	AMS19A-40MZ5-N
	Z	waterblue	sim. 5021	AMS19A-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
T. Georg	10.03.21	T. Georg	13.07.21

Rev.	Engineering change number	Name	Date
600	21-1287	L. Türk	13.07.21

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