

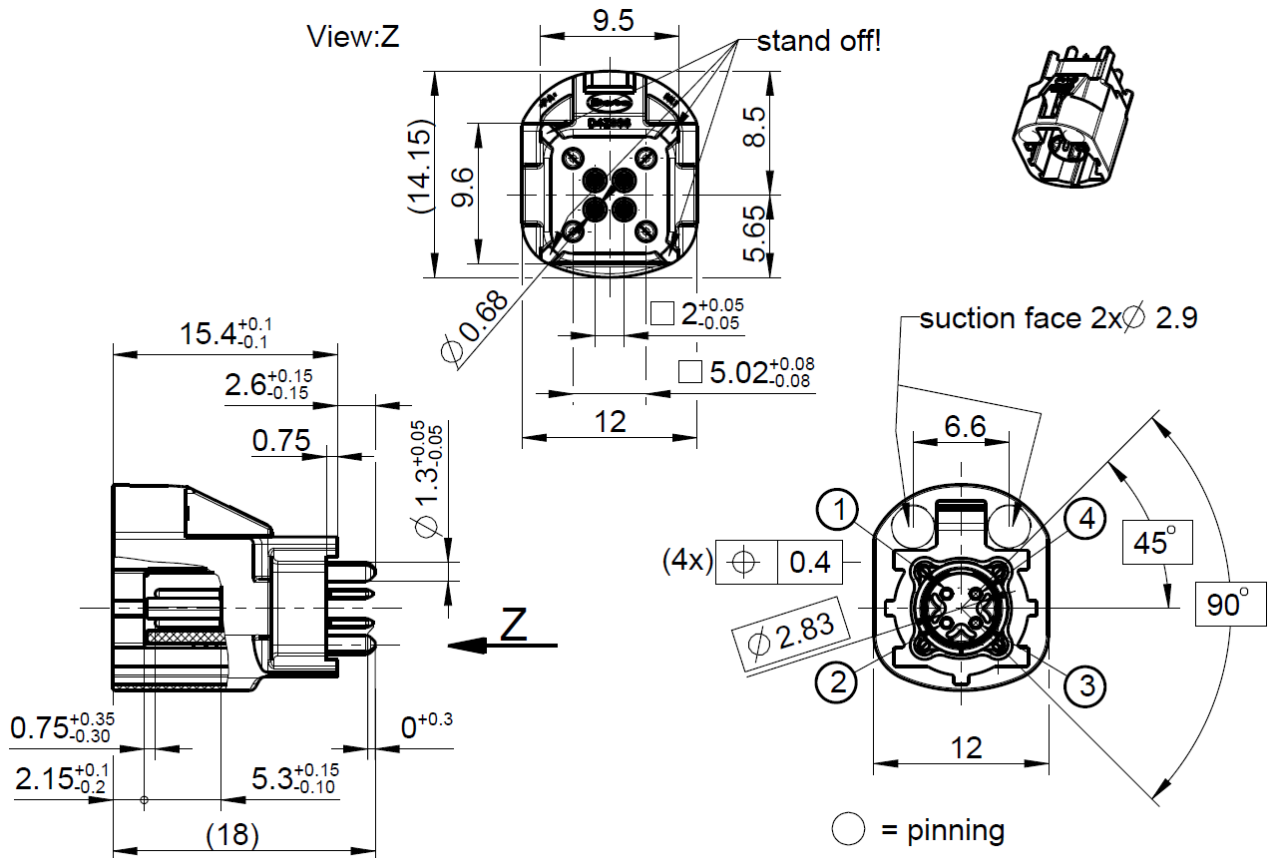
Technical Data Sheet

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HSD®

STRAIGHT PLUG
PCB

D4S10E-40MA5-Y



All dimensions are in mm; tolerances according to ISO 2768 m-H
EMC-screening must be assured by chassis compartment. Control box manufacturer is responsible for EMC-screening.

Interface

According to

RN_059-01 / 999-U-004-2-Z01 USCAR-EWCAP (h)

Documents

PCB layout
Pinning instruction
Test specification
Tape and Reel packaging

MB_759
RN_053-01
RN_061-01
VG160.15000

Material and plating

Connector parts

Center contact

Material

Spring bronze

Plating

Gold, 0.15 µm (Interface)
Tin, 2.0-4.0 µm over Nickel; PCB
Nickel, 3.0-5.0 µm (Interface)
Tin, 2.0-4.0 µm over Nickel; PCB

Outer contact

Spring bronze

Housing with integrated dielectric

PA

Electrical data

Impedance, differential mode	100 Ω differential signalling, for one pair or quad cable shielded
Frequency	DC to 2.0 GHz
Return loss	≥ 20 dB to 1.0 GHz ≥ 17 dB to 2.0 GHz
Insertion loss	≤ -0.1 dB @ 1.0 GHz
Skew (between signal contacts)	≤ 5 psec.
Nearend-Crosstalk	≤ -30 dB
Farend-Crosstalk	≤ -35 dB
Insulation resistance	≥ 1x10 ³ MΩ
Signal contact resistance	≤ 10 mΩ
Outer contact resistance	≤ 7.5 mΩ
Test voltage	250 V rms
Working voltage	^(g) 60 V DC
Power current	≤ 2.5 A DC at 85°C
RF-leakage (shielding effectiveness)	≤ -75 dB up to 1 GHz (IEC 62153-4-7) ≤ -65 dB up to 2 GHz (IEC 62153-4-7)

Mechanical data

Mating cycles	≥ 25
Engagement force	≤ 30 N*
Disengagement force	≥ 5 N
Retention force latch	≥ 110 N*
Coding efficiency	≥ 80 N

* according to USCAR 25 Rev. 3 and the tests specified in USCAR 2 Rev.6 5.4.2 ^(h)

Environmental data

Temperature range	-40°C to +105°C
Thermal shock	DIN IEC 60068-2-14 Test NA
Temperature and humidity	USCar 2 – 4 5.6.2
Vibration (Random)	DIN IEC 60068-2-64
Mechanical Shock	DIN IEC 60068-2-27
High-Temp. Exposure	DIN IEC 60068-2-2
Soldering profile	acc. to IEC 60068-2-58; Group 3&4
RoHS	compliant

Packing

Standard	50 pcs in blister; 150 pcs in tape and reel
Weight	2.05 g/pce

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RF_35/05.10/6.2

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

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S10E-40MA5-A
B		white	sim. 9001	D4S10E-40MA5-B
C		blue	sim. 5005	D4S10E-40MA5-C
D		bordeaux	sim. 4004	D4S10E-40MA5-D
E		green	sim. 6002	D4S10E-40MA5-E
F		brown	sim. 8011	D4S10E-40MA5-F
Z		waterblue	sim. 5021	D4S10E-40MA5-Z

(i)

Change History

Rev.	Date	Change
g00	24.09.19	Working voltage corrected: Old: 100 V rms; New: 60 V DC
h00	25.09.20	-Added a new reference for Interface: 999-U-004-2-Z01 USCAR-EWCAP. -Added a new reference for Mechanical data: USCAR 25 Rev. 3 and the tests specified in USCAR 2 Rev.6 5.4.2 -RAL for cod. E from sim 6002 to 6017 changed.
i00	10.02.21	-RAL for cod. E from 6017 to 6002 changed

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
H. Mühlfellner	29.08.08	M. Gierer	10.02.21	i00	21-0174	L. Tuerk	10.02.21

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