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RF_35/05.10/6.0

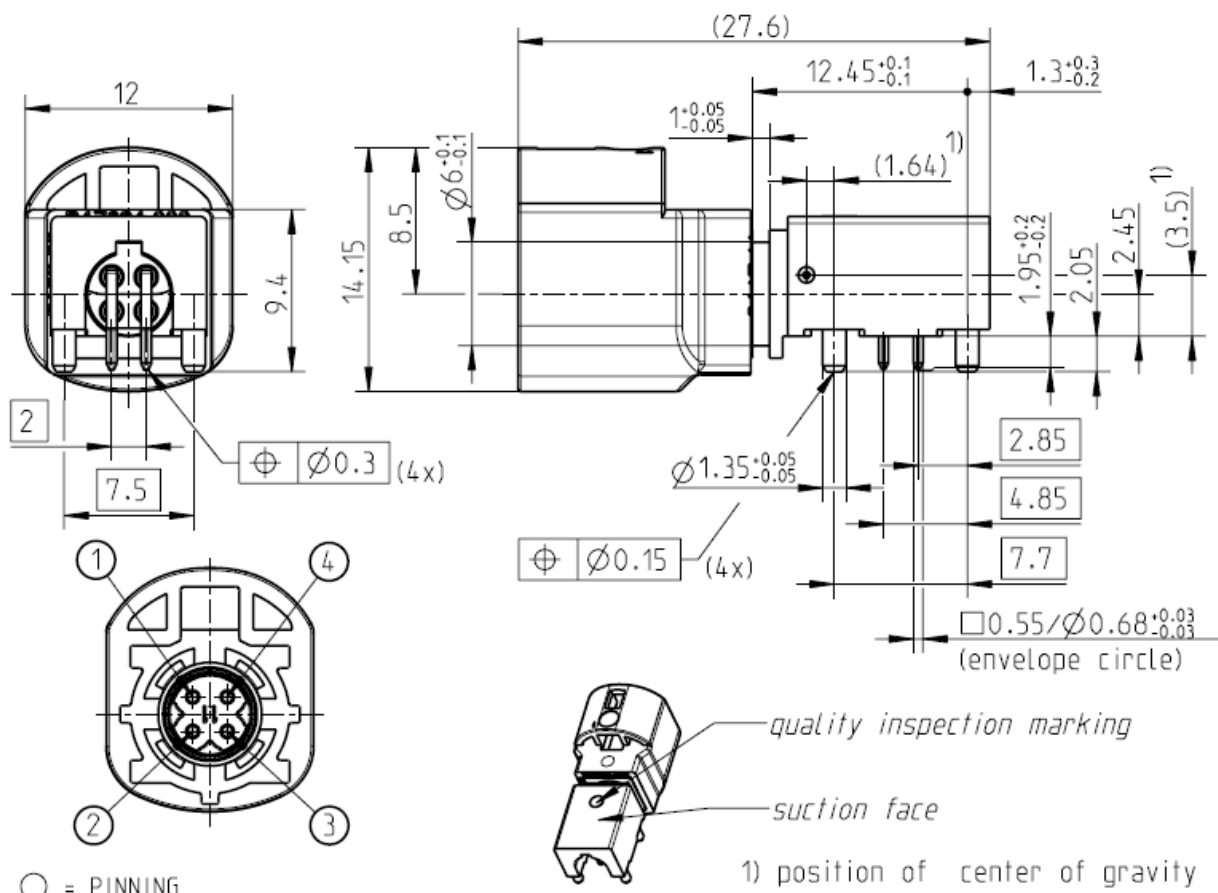
Technical Data Sheet

Rosenberger

HSD

RIGHT ANGLE PLUG
FOR PCB

D4S20L-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

Documents

Assembly instruction
Pinning instruction
Panel piercing
Test specification

D4V010
RN 053-01
MB_215
RN 061-01

Material and plating

Connector parts

Center contact

Outer contact

Dielectric

Housing

Material

Spring bronze

Brass

LCP

PA 6T/66

Plating

Gold, 0.15 μ m (Interface)

Tin, 0.5-2 μ m (PCB)

Tin 3-6 μ m, over Ni 3-6 μ m, Cu 1.5-2.5 μ m (C)

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	$\geq 1 \times 10^3$ M Ω
Signal contact resistance	≤ 10 m Ω
Outer contact resistance	≤ 7.5 m Ω
Test voltage	250 V rms
Working voltage	100 V rms
Power current	≤ 1.5 A DC
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

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 

Tooling

N/A

Suitable cables

N/A

Packing

Standard	200 pcs in tape & reel
Weight	6.84 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S20L-40MA5-A
B		white	sim. 9001	D4S20L-40MA5-B
C		blue	sim. 5005	D4S20L-40MA5-C
D		bordeaux	sim. 4004	D4S20L-40MA5-D
E		green	sim. 6002	D4S20L-40MA5-E
F		brown	sim. 8011	D4S20L-40MA5-F
Z		waterblue	sim. 5021	D4S20L-40MA5-Z

Change History

Rev.	Date	Change
c00	14/06/13	plating defined Environmental data specification changed from "2002/95/EC (RoHS)" to "RoHS"

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. Hoefling	23/03/11	T. Hoefling	14/06/13	c00	13-0639	R. Hochheim	14/06/13

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