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RF_35/05.10/6.2

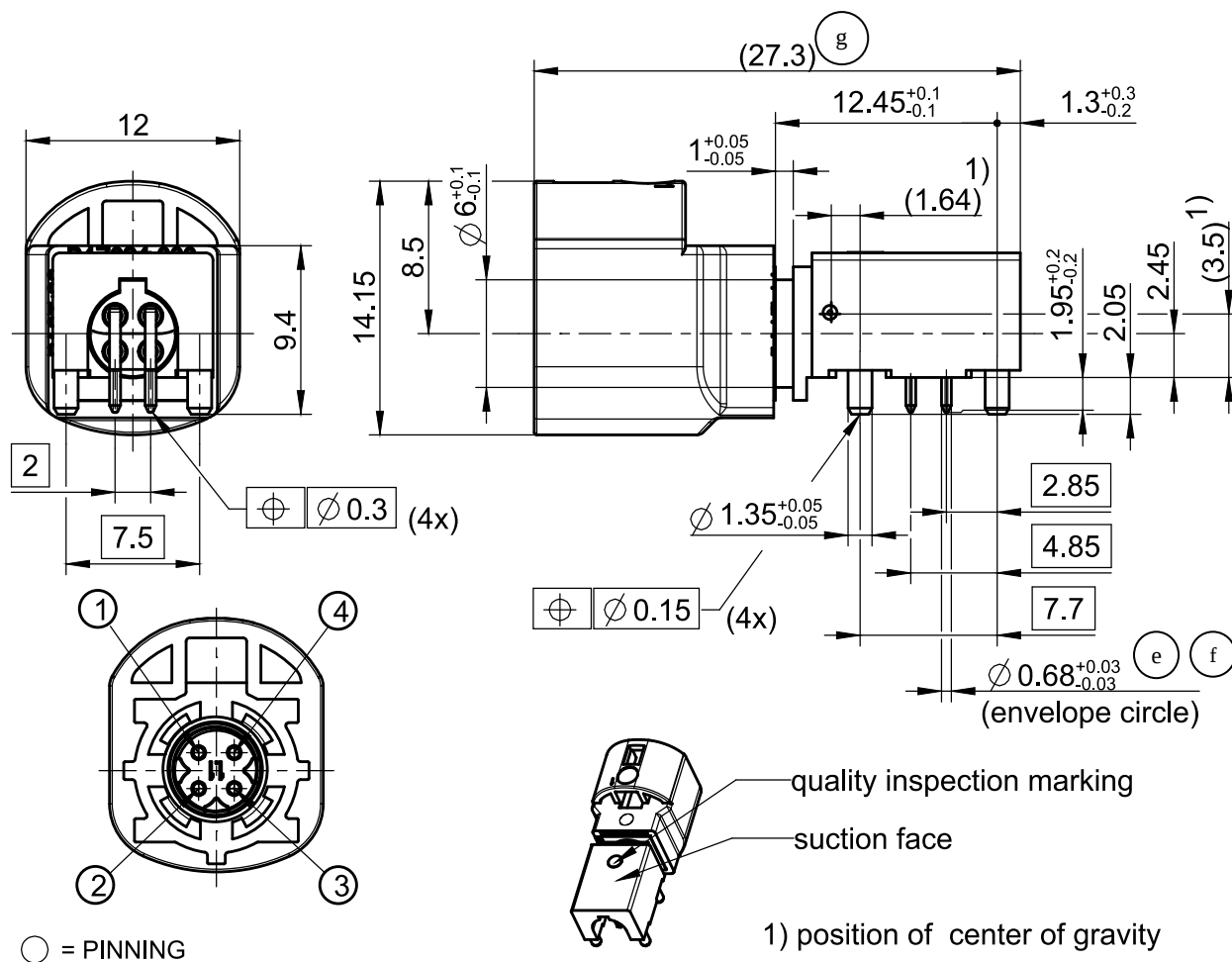
Technical Data Sheet

Rosenberger

Rosenberger
HSD®

RIGHT ANGLE PLUG
FOR PCB

D4S20L-40MA5-Y



All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to

RN 059-01

Documents

Pinning instruction
Panel piercing
Test specification

RN 053-01
MB_215
RN 061-01

Material and plating

Connector parts

Center contact

Outer contact

Dielectric
Housing

Material

Spring bronze

Brass

LCP
HTN

Plating

Gold, 0.15 μm (Interface)
Tin, 0.5-2 μm (PCB)
Ni 3-6 μm (Interface)
Tin 3-6 μm (PCB)

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Rosenberger HSD®	RIGHT ANGLE PLUG FOR PCB	D4S20L-40MA5-Y
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	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	
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de		Tel. : +49 8684 18-0 Email : info@rosenberger.de Page 2 / 3

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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
e00	28.01.14	Documents removed -Assembly instruction D4V010 Material and plating changed -Material PA 6T/66 to HTN Right Angle Plug removed -measurement $\square 0,55$
f00	07.04.14	Dimension change from $\square 0,55/\varnothing 0,63 \pm 0,03$ to $\varnothing 0,68 \pm 0,03$
g00	04.04.17	Ovrrall length changed from 27,6 to 27,3

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. Höfling	23.03.11	C. Wagner	04.04.17	g00	17-0557	C. Paus	04.04.17
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