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RF_35/05.10/6.1

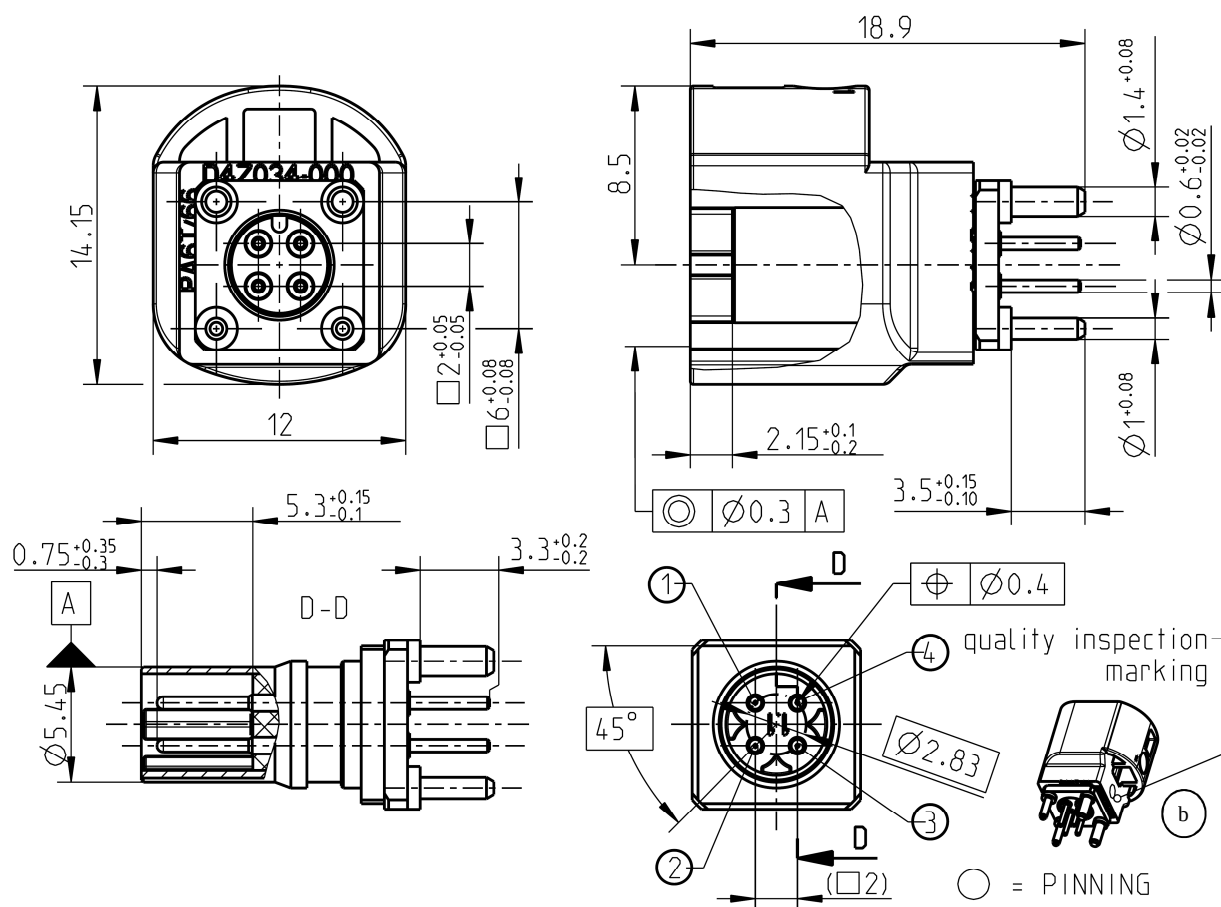
Technical Data Sheet

Rosenberger

Rosenberger
HSD®

STRAIGHT PLUG
FOR PCB

D4S10A-400L5-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

PCB layout

MB_214

Pinning instruction

RN 053-01

Test specification

RN 061-01

Tape and Reel packaging

VG97.12500

Material and plating

Connector parts

Center contacts

Outer contact

Dielectric

Housing

Material

Brass

Brass

LCP

PA 6T/66

Plating

Gold, 0.15 µm

Gold, 0.15 µm

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Rosenberger HSD®	STRAIGHT PLUG FOR PCB	D4S10A-400L5-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	125 pcs on tape & reel	
Weight	2.9 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	D4S10A-400L5-A
B		white	sim. 9001	D4S10A-400L5-B
C		blue	sim. 5005	D4S10A-400L5-C
D		bordeaux	sim. 4004	D4S10A-400L5-D
E		green	sim. 6002	D4S10A-400L5-E
F		brown	sim. 8011	D4S10A-400L5-F
Z		waterblue	sim. 5021	D4S10A-400L5-Z

Change History

Rev.	Date	Change
b00	22.04.15	add quality inspection marking

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
M. Zebhauser	30.01.06	J. Ermel	06.05.15	b00	15-0500	P. Schroeder	06.05.15
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