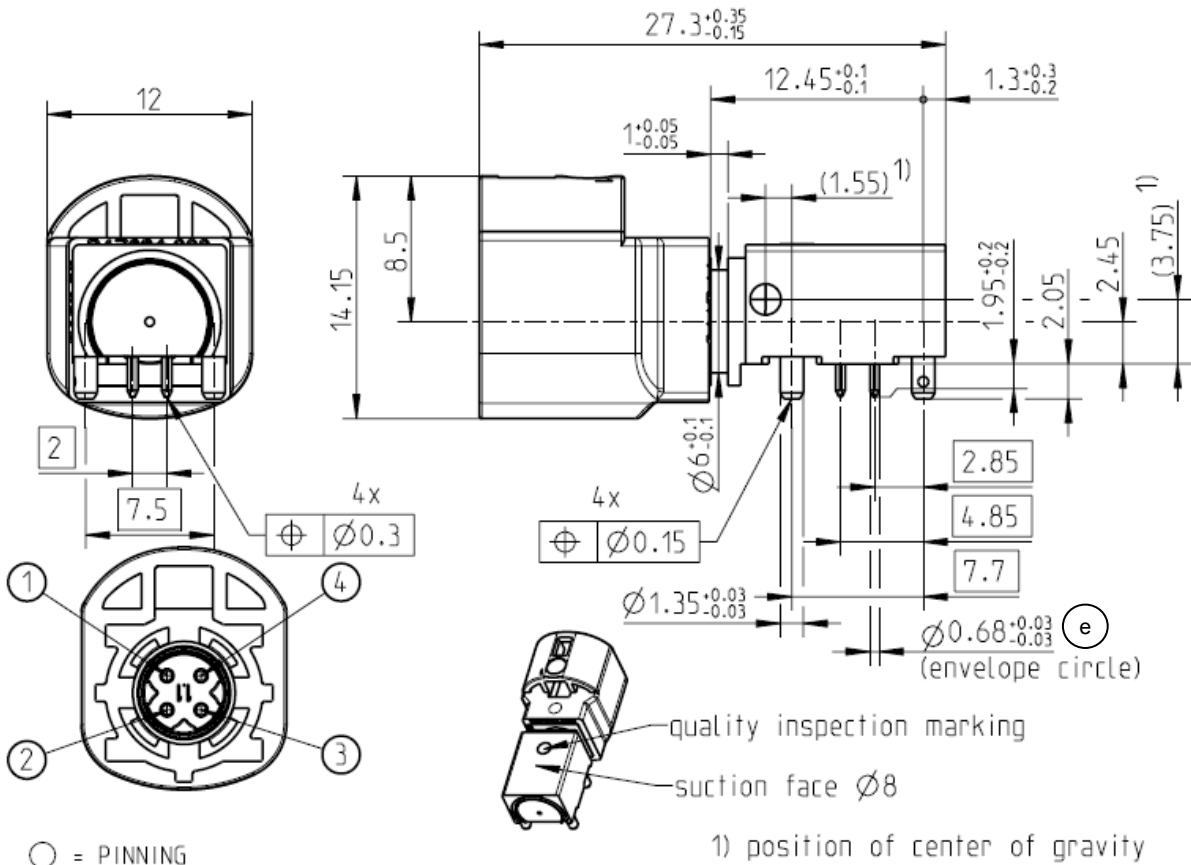


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RF_35/05.10/6.0

Technical Data Sheet		Rosenberger																		
RosenbergerHSD®	RIGHT ANGLE PLUG FOR PCB	D4S20D-40MA5-Y																		
 ○ = PINNING 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 Pinning instruction RN 053-01 Panel piercing MB_215 Test specification RN 061-01 Material and plating <table><thead><tr><th>Connector parts</th><th>Material</th><th>Plating</th></tr></thead><tbody><tr><td>Center contact</td><td>Spring bronze</td><td>Gold, 0.15 µm (Interface) (c)</td></tr><tr><td>Outer contact</td><td>Brass</td><td>Tin, 0.5-2 µm (PCB)</td></tr><tr><td>Dielectric</td><td>LCP</td><td>Ni, 3-6 µm (Interface)</td></tr><tr><td>Housing</td><td>PA 6T/66</td><td>Tin, 3-6 µm (PCB) (d)</td></tr><tr><td>Cover</td><td>Alpaca</td><td></td></tr></tbody></table>			Connector parts	Material	Plating	Center contact	Spring bronze	Gold, 0.15 µm (Interface) (c)	Outer contact	Brass	Tin, 0.5-2 µm (PCB)	Dielectric	LCP	Ni, 3-6 µm (Interface)	Housing	PA 6T/66	Tin, 3-6 µm (PCB) (d)	Cover	Alpaca	
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Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de	Tel. : +49 8684 18-0 Fax : +49 8684 18-499 Email : info@rosenberger.de	Page 1 / 3																		

Technical Data Sheet		Rosenberger
RosenbergerHSD®	RIGHT ANGLE PLUG FOR PCB	D4S20D-40MA5-Y
Electrical data Impedance, differential mode Frequency Return loss Insertion loss Skew (between signal contacts) Nearend-Crosstalk Farend-Crosstalk Insulation resistance Signal contact resistance Outer contact resistance Test voltage Working voltage Power current RF-leakage (shielding effectiveness) 100 Ω differential signalling, for one pair or quad cable shielded DC to 2.0 GHz ≥ 20 dB to 1.0 GHz ≥ 17 dB to 2.0 GHz ≤ 0.1 dB @ 1.0 GHz ≤ 5 psec. ≤ 30 dB ≤ 35 dB $\geq 1 \times 10^3$ MΩ ≤ 10 mΩ ≤ 7.5 mΩ 250 V rms 100 V rms ≤ 1.5 A DC ≥ 75 dB up to 1 GHz (IEC 62153-4-7) ≥ 65 dB up to 2 GHz (IEC 62153-4-7),		
Mechanical data Mating cycles Engagement force Disengagement force Retention force latch Coding efficiency ≥ 25 ≤ 30 N ≥ 5 N ≥ 110 N ≥ 80 N		
Environmental data Temperature range Thermal shock Temperature and humidity Vibration (Random) Mechanical Shock High-Temp. Exposure Soldering profile RoHS -40°C to +105°C DIN IEC 60068-2-14 Test Na USCar 2 – 4 5.6.2 DIN IEC 60068-2-64 DIN IEC 60068-2-27 DIN IEC 60068-2-2 acc. to IEC 60068-2-58; Group 3&4 compliant 		
Tooling N/A		
Packing Standard Weight 200 pcs. in tape and reel 7.0 g/ pce		
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Technical Data Sheet

Rosenberger

RosenbergerHSD®

RIGHT ANGLE
PLUG
FOR PCB

D4S20D-40MA5-Y

Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
A		black	sim. 9005	D4S20D-40MA5-A
B		white	sim. 9001	D4S20D-40MA5-B
C		blue	sim. 5005	D4S20D-40MA5-C
D		bordeaux	sim. 4004	D4S20D-40MA5-D
E		green	sim. 6002	D4S20D-40MA5-E
F		brown	sim. 8011	D4S20D-40MA5-F
Z		waterblue	sim. 5021	D4S20D-40MA5-Z

Coding for special use

Part Number has to be accomplished by codification

Control box manufacturer is responsible for pinning

Coding	Plug	Colour	RAL	Part-Number
H		violet	sim. 4003	D4S20D-40MA5-H
J		beige	sim. 1001	D4S20D-40MA5-J

Change History

Rev.	Date	Change
c00	14.06.13	plating defined Environmental data specification changed from "2002/95/EC (RoHS)" to "RoHS"
d00	03.09.13	Material and plating changed -from Tin 3-6 µm to Tin 3-6 µm (PCB) -from Ni 3-6 µm to Ni 3-6 µm (Interface)
e00	07.04.14	Dimension change from $\square 0,55/\varnothing 0,68 \pm 0,03$ to $\varnothing 0,68 \pm 0,03$

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	03.08.12	T. Höfling	07.04.14	e00	14-0526	R. Hochheim	07.04.14
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