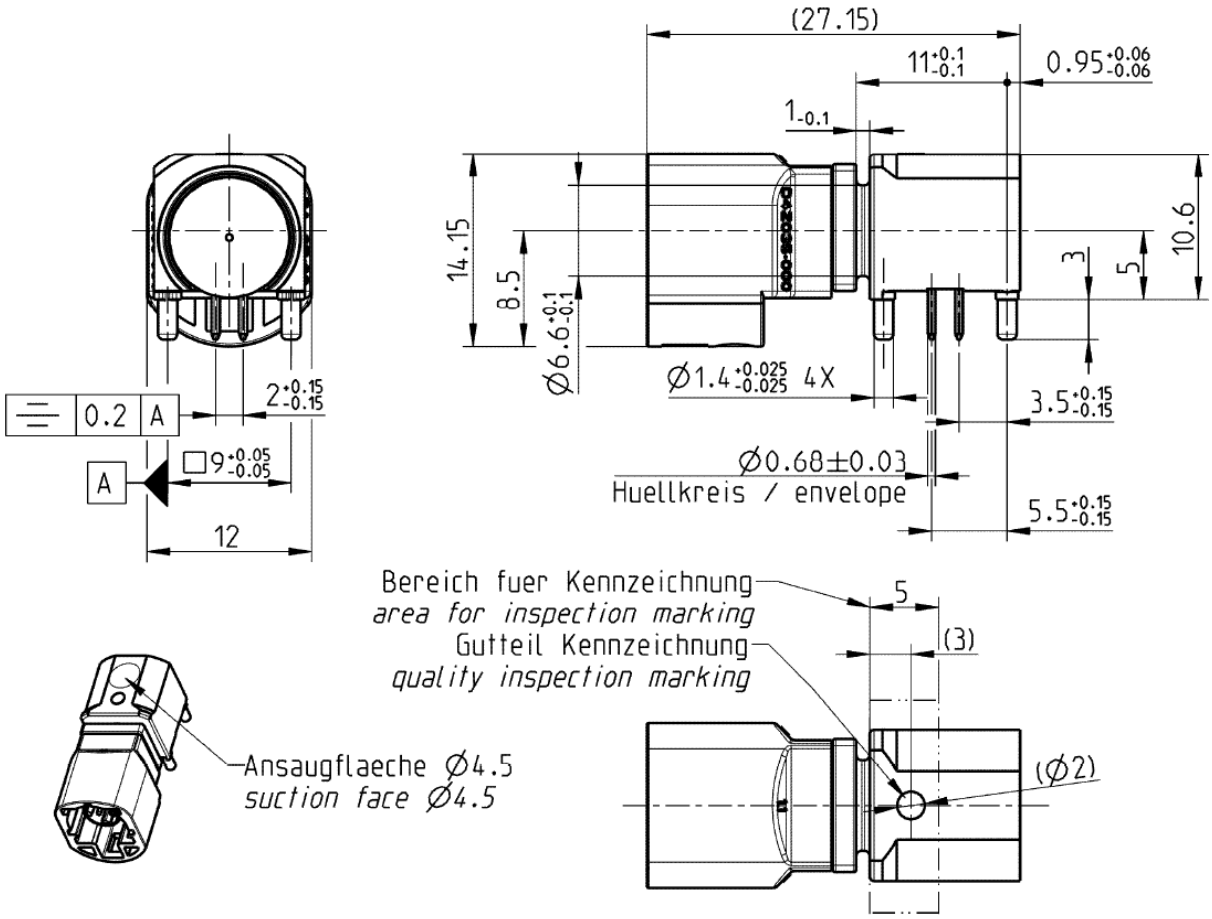
Technical Data Sheet	Rosenberger
Rosenberger HSD® / RIGHT ANGLE PLUG FOR PCB	**D4S2UG-400A5-Y**



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	D4V013
Panel piercing	MB_261
Pinning instruction	RN 053-01
Test specification	RN 061-01

Material and plating

Connector parts	Material	Plating
Center contact	Spring bronze	Gold, 0.15 µm(Interface) Tin, 0.5-2 µm(PCB)
Outer contact 1 (Interface)	Brass	Nickel, 3-6 µm
Outer contact 2 (PCB)	Zinc Alloy	Tin, 2-5 µm over Nickel 1-5 µm (b)
Cover	Alpaca	
Dielectric	LCP	
Housing	PA 6T/66	

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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 GHz
	≥ 17 dB to 2 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 (b)

Tooling

N/A

Suitable cables

Cable type	N/A

Packing

Standard	200 pcs on tape & reel
	1200pcs in box (6 x 200pcs/reel) (c)
Weight	8,6 g/pce

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Coding

Part Number has to be accomplished by codification

Coding	Plug	Colour	RAL	Part-Number
G		grey	sim. 7031	D4S2UG-400A5-G
H		violet	sim. 4003	D4S2UG-400A5-H
J		beige	sim. 1001	D4S2UG-400A5-J
K		curry	sim. 1027	D4S2UG-400A5-K
L		yellow green	sim. 6018	D4S2UG-400A5-L
M		pastel orange	sim. 2003	D4S2UG-400A5-M
O		light green	sim. 6027	D4S2UG-400A5-O

Change History

Rev.	Date	Change
b00	17.07.13	Plating at outer contact 2 (PCB) changed from “Tin, 6-8 µm” to “Tin, 2-5 µm over Nickel 1-5 µm Environmental data specification changed from “2002/95/EC (RoHS)” to “RoHS”
c00	10.01.14	Bundle size changed from “800 pcs in box (8 X 100 pcs in blister tray)” to “1200pcs in box (6 x 200pcs/reel)”

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
M. Zebhauser	26.07.07	J. Maier	10.01.14

Rev.	Engineering change number	Name	Date
c00	14-0044	L.Schneider	10.01.14

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