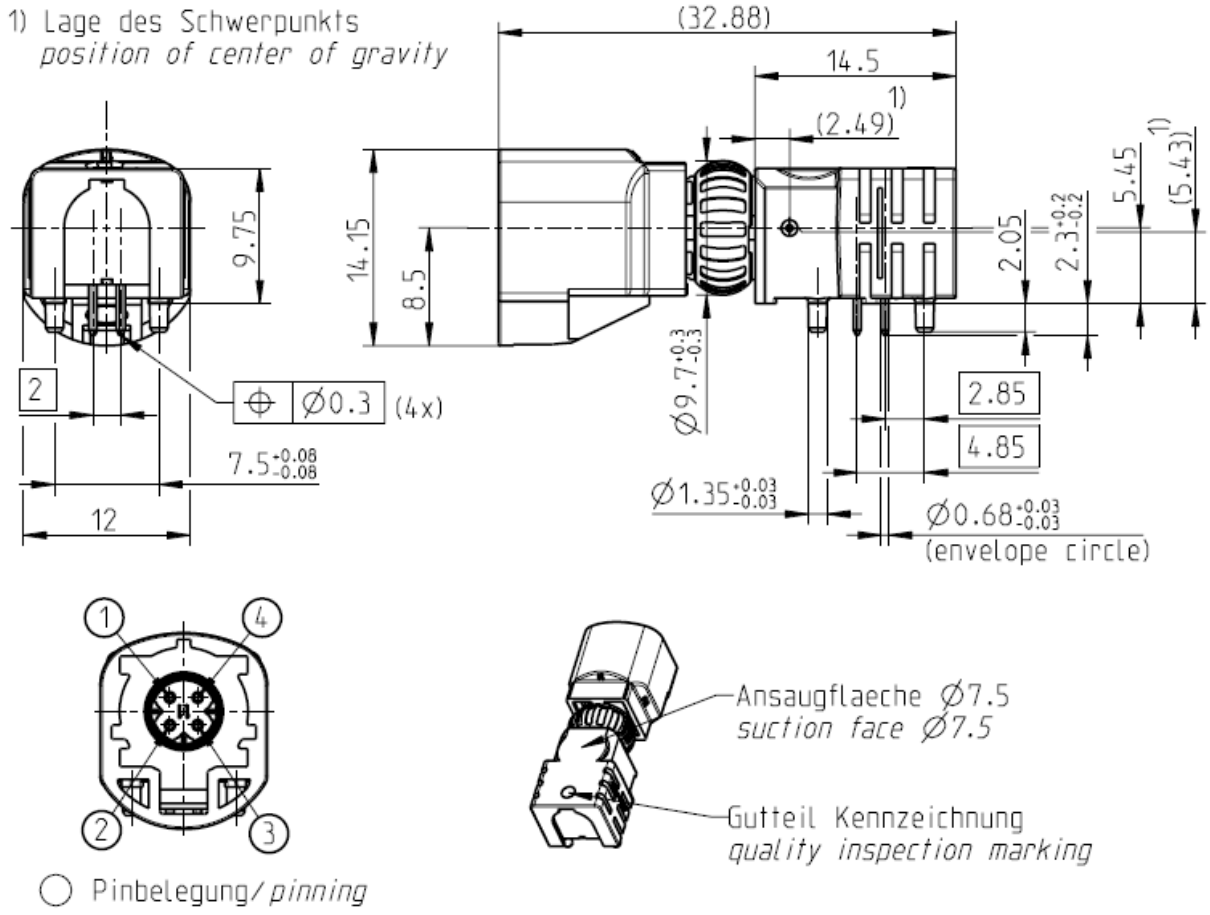
| TECHNICAL DATA SHEET | Rosenberger |
|---|---|
| HSD RIGHT ANGLE PLUG FOR PCB | **D4S2UY-40MA5-Y** |




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 | D4V019 |
| PCB layout | MB_322 |
| Pinning instruction | RN 053-01 |
| Test specification | RN 061-01 |
| Tape&reel packing | VG 187.22000 |



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## Material and plating

| Connector parts | Material | Plating |
|---|---|---|
| Center contact | Spring bronze | Gold, 0.15 µm (Interface)<br>Tin, 0.5-2 µm (PCB) |
| Outer contact (Interface) | Brass | Nickel, 3-6 µm |
| Outer contact (PCB) | Zinc alloy | Tin, 2-5 µm over Nickel 1-5µm |
| Dielectric | LCP | |
| Housing | HTN | |
| Spring washer | Spring bronze | Nickel, 2.5-5 µm |

## 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<br>≥ 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)<br>≥ 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 |
| 2002/95/EC (RoHS) | compliant |



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## Tooling

N/A

## Suitable cables

N/A

## Packing

Standard 220 pcs on tape&reel
Weight 8.3 g/pce

## Coding

Part number has to be accomplished by codification

| Coding | Plug | Colour | RAL | Part-Number |
|---|---|---|---|---|
| G |  | grey | sim. 7031 | D4S2UY-40ML5-G |
| H |  | violet | sim. 4003 | D4S2UY-40ML5-H |
| J |  | beige | sim. 1001 | D4S2UY-40ML5-J |
| K |  | curry | sim. 1027 | D4S2UY-40ML5-K |
| L |  | yellow green | sim. 6018 | D4S2UY-40ML5-L |
| M |  | pastel orange | sim. 2003 | D4S2UY-40ML5-M |
| O |  | light green | sim. 6027 | D4S2UY-40ML5-O |

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 |
|---|---|---|---|
| Thomas Höfling | 24/02/11 | Thomas Höfling | 01/03/12 |

| Rev. | Engineering change number | Name | Date |
|---|---|---|---|
| a00 | 12-s083 | C. Biermann | 01/03/12 |

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