



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



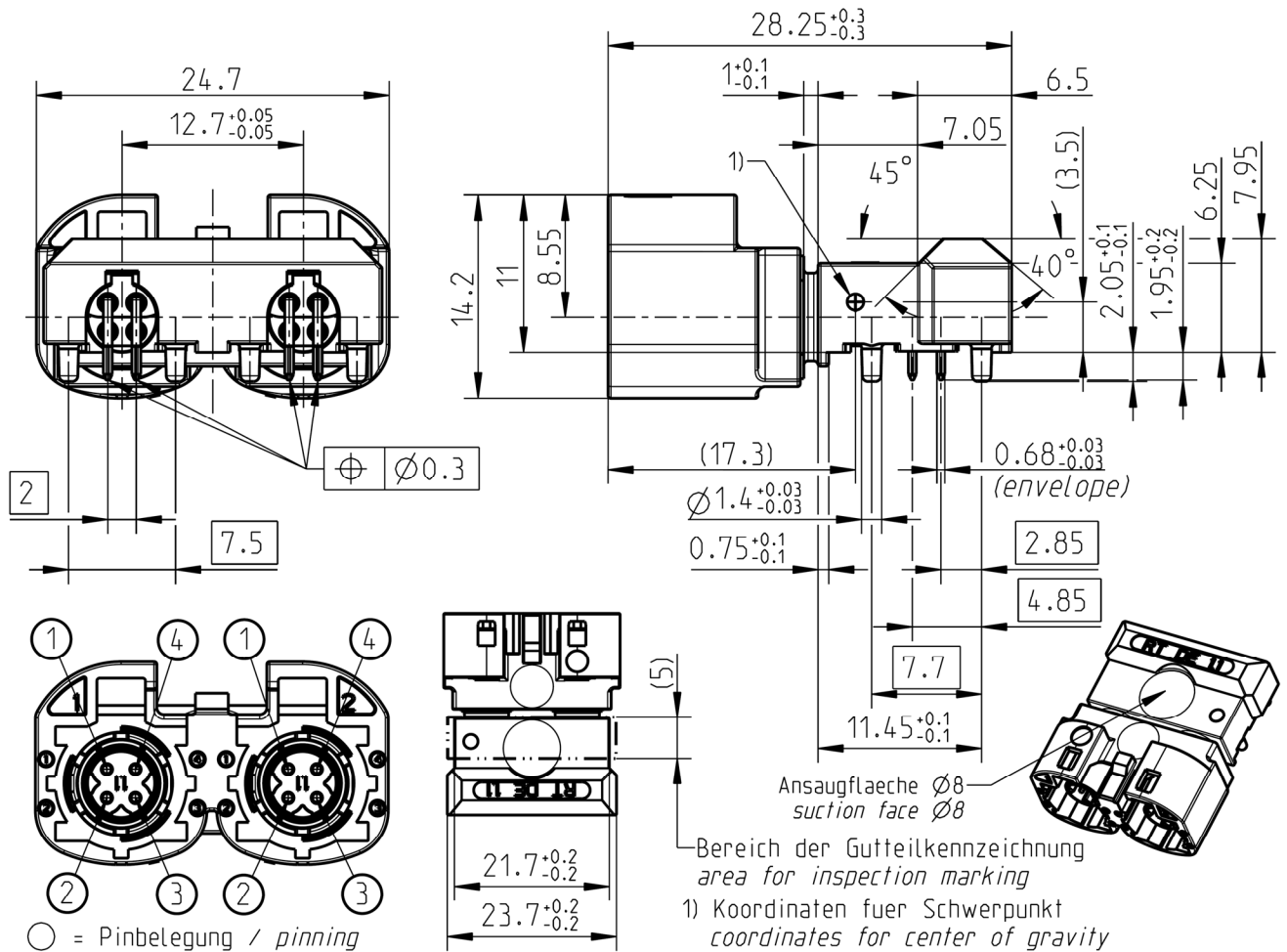
## Contact us

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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 059-03

**Documents**

Pinning instruction RN\_053-01  
Panel piercing MB\_353  
Test specification RN 061-01

**Material and plating**

**Connector parts**  
Center contact

**Material**  
Spring bronze

**Plating**  
Gold, 0.15 µm (Interface)  
Tin, 0.5-2 µm (PCB)

Outer contact 1 (Interface)  
Outer contact 2 (PCB)  
Dielectric  
Plastic housing

Brass  
Zinc Alloy  
LCP  
PA 10T/X

Nickel, 2-4µm  
Tin, 2-4µm, over nickel



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RF\_35/05.10/6.0

**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 <sup>3</sup> 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 each contact	≤ 30 N
Disengagement force each contact	≥ 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**

N/A

**Packing**

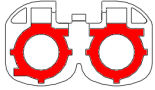


Standard	200 pcs in tape & reel
Weight	14.9 g/pce

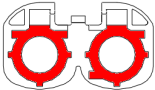



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**Packing**

Part Number has to be accomplished by codification

Standard coding	Plug	Colour	RAL	Part-Number
B (B+A)		natural	sim. 9001	D4S21J-40MA5-B
C (C+D)		light blue	sim. 5012	D4S21J-40MA5-C
E (E+F)		may green	sim. 6017	D4S21J-40MA5-E

Additional coding	Plug	Colour	RAL	Part-Number
A (A+B)		graphite black	sim. 9011	D4S21J-40MA5-A
D (D+C)		claret violet	sim. 4004	D4S21J-40MA5-D
F (F+E)		nut brown	sim. 8011	D4S21J-40MA5-F
Z (Z+Z)		waterblue	sim. 5021	D4S21J-40MA5-Z

**Change History**

Rev.	Date	Change
b00	14.07.14	Plating Outer contact 2 (PCB) changed from Tin 14-16µm, over nickel to Tin, 3-6µm, over nickel Environmental data specification changed from "2002/95/EC (RoHS)" to "RoHS"
c00	15.07.14	Plating Outer contact 1 (Interface) changed from Nickel 3-6µm to Nickel 2-4µm Plating Outer contact 2 (PCB) changed from Tin 3-6µm, over nickel to Tin, 2-4µm, over nickel

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
J. Maier	22.04.10	J. Ermel	15.07.14	c00	14-0993	T. Koschel	15.07.14

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