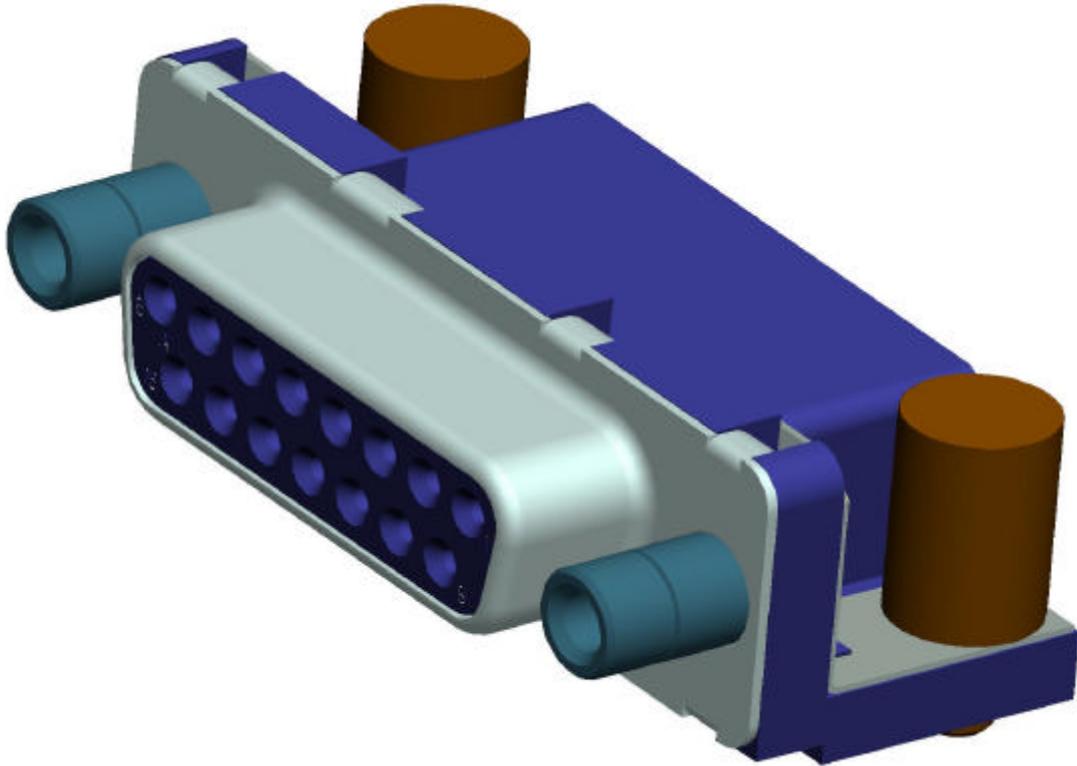


CDC 	Type PRODUCT SPECIFICATION	GS-12-433	
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DELTA D PIP



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E-3005 04/14/99

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1. Scope

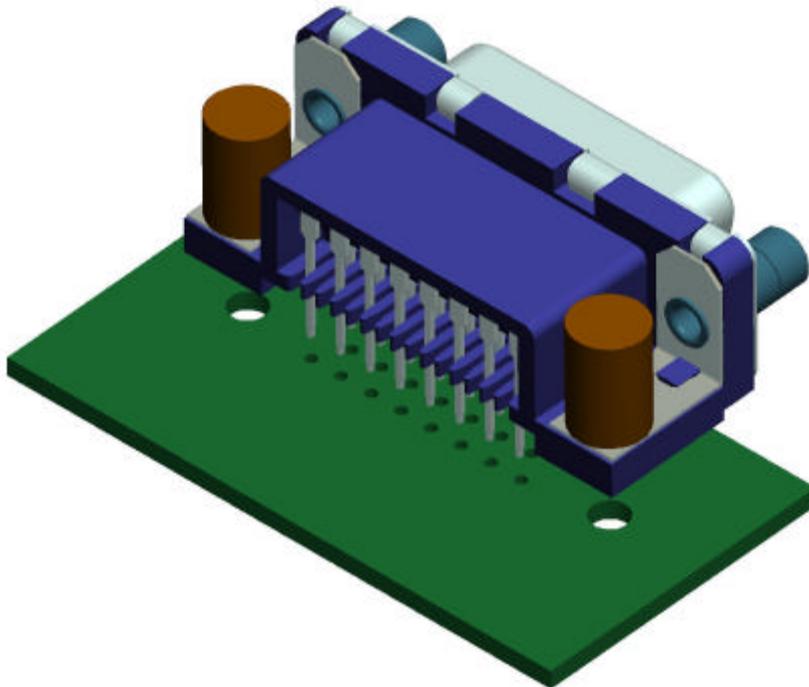
This product specification covers the requirements of a SUB DELTA D PIP Right Angle.

For Product Pick Process: Hand Placing / Gripper / Vacuum Nozzle

2. Product description

2.1 General

PRODUCT LEAD FREE IN ACCORDANCE TO RoHS 2002/EC/95



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2.2 Design and construction

The connector shall be of design, construction and physical dimensions as specified on the applicable product customer drawings:

US STANDARD 9,15, 25 & 37 POS

- C-DD-0099** FOR THE P/N D--S33E6RL/RX/RV09LF TRAY PACKAGING
- C-DD-0100** FOR THE P/N D--S33E6RL/RX/RV12LF TAPE & REEL PACKAGING
- C-DD-0101** FOR THE P/N D--P33E6RL/RX/RV12LF TAPE & REEL PACKAGING
- C-DD-0102** FOR THE P/N D--P33E6RL/RX/RV09LF TRAY PACKAGING

EUROPE STANDARD 9,15, 25 & 37 POS

- C-DD-0103** FOR THE P/N D-P13A6RL/RX/RV09LF TRAY PACKAGING
- C-DD-0104** FOR THE P/N D-P13A6RL/RX/RV12LF TAPE & REEL PACKAGING
- C-DD-0105** FOR THE P/N D-S13A6RL/RX/RV12LF TAPE & REEL PACKAGING
- C-DD-0106** FOR THE P/N D-S13A6RL/RX/RV09LF TRAY PACKAGING

2.3 Materials and plating

2.3.1 Housing dielectric material

Plastic raw material: Genestar, 33% glass fiber, UL94 V-O rating
 Black colour

2.3.2 Terminal material

Copper Alloy CuSn8

2.3.3 Terminal Plating

Gold over Nickel on mating area metal
 Tin over Nickel on termination

2.3.4 Shell material

Steel

2.3.5 Shell Plating

Nickel over Copper

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2.3.6 Accessory Material

Brass

2.3.7 Accessory Plating

LIF Metal Peg:- Pure Tin over Nickel.
 Female Screw, Insert & Metal Bracket: Nickel Sulfamate.

3. Characteristics

3.1 Climatic category

Performance level	Category Temperature		Damp heat , Steady state		Days
	Lower ° C	Upper ° C	Temp ° C	Rel. Humidity	
1	-55	125	40	93%	56
2	-55	100	40	93%	21

3.2 Electrical Characteristics

3.2.1 Voltage proof

Conditions: IES 512-2
 Standard atmospheric conditions
 Mated connectors
 Wiring according to 8.1.5

Contacts/Contacts: 1000 V r.m.s
 Contact/Test panel: 1200 V r.m.s

3.2.2 Current carrying capacity

Conditions: IES 512-3
 Standard atmospheric conditions

Rated current when all contacts are loaded.
 Terminations are wired with 0.5mm² wire.

3.2.3 Initial contact resistance

Conditions: IES 512-2
 Standard atmospheric conditions
 Mated connectors
 Connection points acc. To 8.1.1

Max. Value of contact resistance 25mΩ*

* Max. rise 10mΩ in relation to initial values in other tests.

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3.2.4 Initial insulation resistance

Conditions: IES 512-2

Standard atmospheric conditions

Mated connectors

Test Voltage: 100V±15V d.c

All performance levels : 5 G? min.

3.3. Mechanical

3.3.1 Mechanical operation

Conditions: IEC 512-5

Speed: 10mm/s max.

Rest: 10 s min. (unmated)

Performance level	Operations
1	500
2	250

3.3.2 Insertion and withdrawal forces

Conditions: IEC 512-7

Sl.No.	Number of contacts	Insertion and withdrawal force				
		withdrawal		Min. 0.3N/Cts. with pin Ø 0.99mm	Insertion	
		Min.N	Max.N		Max. N	Max. 3.3N/Cts. with pin Ø 0.99mm
1	9	3.3	20		30	
2	15	4.5	33		50	
3	25	7.8	56		83	
4	37	11	82		123	

3.3.3 Insert retention in housing (axial)

Conditions: IEC 512-8

Number of contacts	F in N
9	53
15	80
25	124
37	180

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3.3.4 Vibration

Conditions: IEC 512-4

Performance level	Severity
1	10Hz to 2000 Hz and 1.5mm or 20g. 3x2.5h
2	10Hz to 500 Hz and 0.35mm or 5g. 3x2h

3.2 Cycles

500 Min

3.3 Temperature

Temperature Range : -50°C to 125 °C

3.4 Accessories

Insert M3 or UNC 4-40 : Retention against torque 0.7N.m Min.

Female screw lock : Retention against torque 0.5N.m Min.

Metal PIP: Retention against force 15N Min.

4. Reflow process

Lead free soldering

In accordance with : JSTD_020C

5. Packaging

In accordance with GS-14-1139 for Tape & Reel Packaging

In accordance with GS-14-1157 for Tray Packaging

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6.Revision record

Rev.	Page	Description	ECN	YY/MM/DD
A	ALL	NEW	I07-0017	2007/04/16
B	ALL	Clause3.0 added with climatic category, electrical & Mechanical characteristics	I08-0137	2008/10/10

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