

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0746971002

Status:

Active

Overview:

vhdm\_\_hsd

Description:

2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Shield End Version, 40 Circuits, Pin Length 6.25mm (.246")

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

General

Product Family

Backplane Connectors

Series

74697

Application

Backplane

Application Tooling Documents

<a href="http://www.molex.com/pdm\_docs/ats/TM-622010999.pdf">Tooling Manual</a>

Comments

No Keying Position

Component Type

PCB Header

Overview

vhdm\_\_hsd

Product Name

VHDM-HSD™

Style

N/A

Physical

Circuits (Loaded)

40

Circuits (maximum)

40

Color - Resin

Black

Durability (mating cycles max)

200

First Mate / Last Break

No

Flammability

94V-0

Guide to Mating Part

Yes

Keying to Mating Part

None

Material - Metal

High Performance Alloy (HPA), Stainless Steel

Material - Plating Mating

Gold

Material - Plating Termination

Tin-Lead

Material - Resin

High Temperature Thermoplastic

Number of Columns

10

Number of Pairs

Open Pin Field

Number of Rows

5

Orientation

Vertical

PCB Retention

None

PCB Thickness Recommended (in)

0.070 In

PCB Thickness Recommended (mm)

1.80 mm

Packaging Type

Tube

Pitch - Mating Interface (in)

0.079 In

Pitch - Mating Interface (mm)

2.00 mm

Plating min: Mating (µin)

30

Plating min: Mating (µm)

0.75

Plating min: Termination (µin)

30

Plating min: Termination (µm)

0.75

Polarized to PCB

Yes

Stackable

Yes

Surface Mount Compatible (SMC)

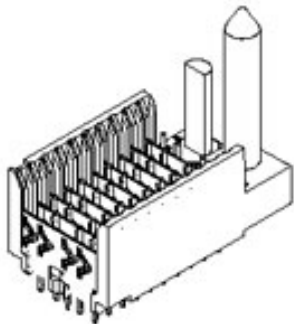
Yes

Temperature Range - Operating

-55°C to +105°C

Termination Interface: Style

Through Hole - Compliant Pin



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Pb

Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

74697Series

Mates With

74670 HSD Daughtercard

Application Tooling | FAQ

Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Global

| Description                           | Product #                  |
|---------------------------------------|----------------------------|
| VHDM® Signal Pin Inserter Repair Tool | <a href="#">0622015700</a> |
| VHDM® 5 Row and Shield Repair Tool    | <a href="#">0622015810</a> |
| VHDM® 5 Row Shield Extraction Tool    | <a href="#">0622016010</a> |
| VHDM-HSD™ Signal Header, 5 Row by     | <a href="#">0622020201</a> |

Electrical

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 1A               |
| Data Rate                     | 5.0 Gbps         |
| Real Signals (per 25mm)       | 48               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

10 Wide, 20.00mm  
(.787")

Material Info

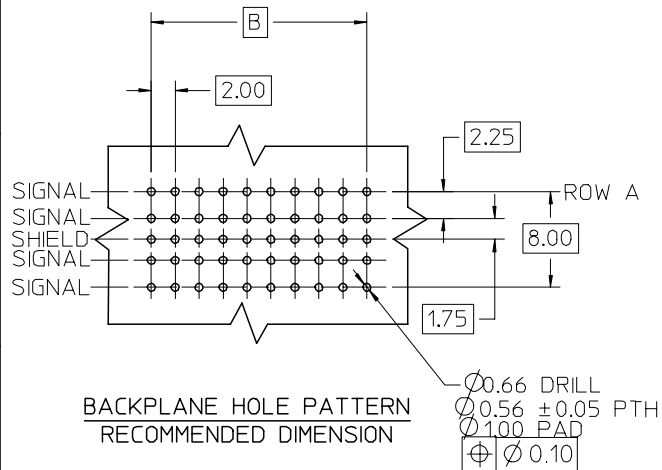
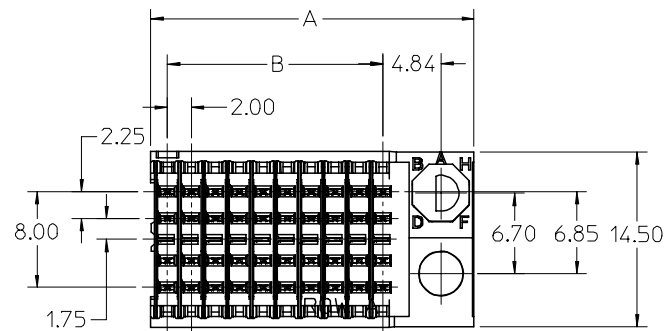
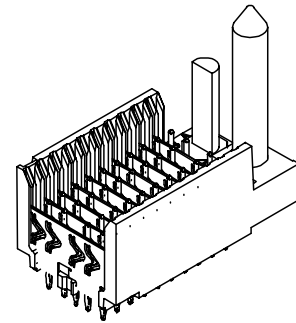
Reference - Drawing Numbers

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-74696-003 |
| Sales Drawing           | SD-74697-002 |

VHDM-HSD is a trademark of Amphenol Corporation

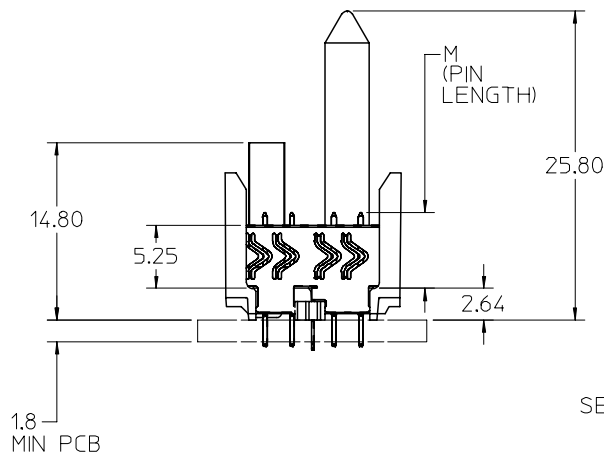
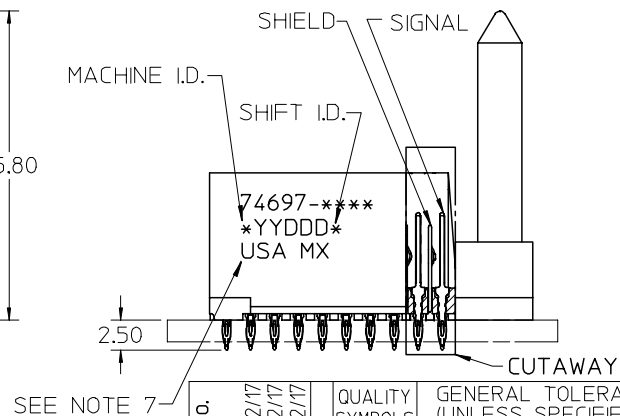
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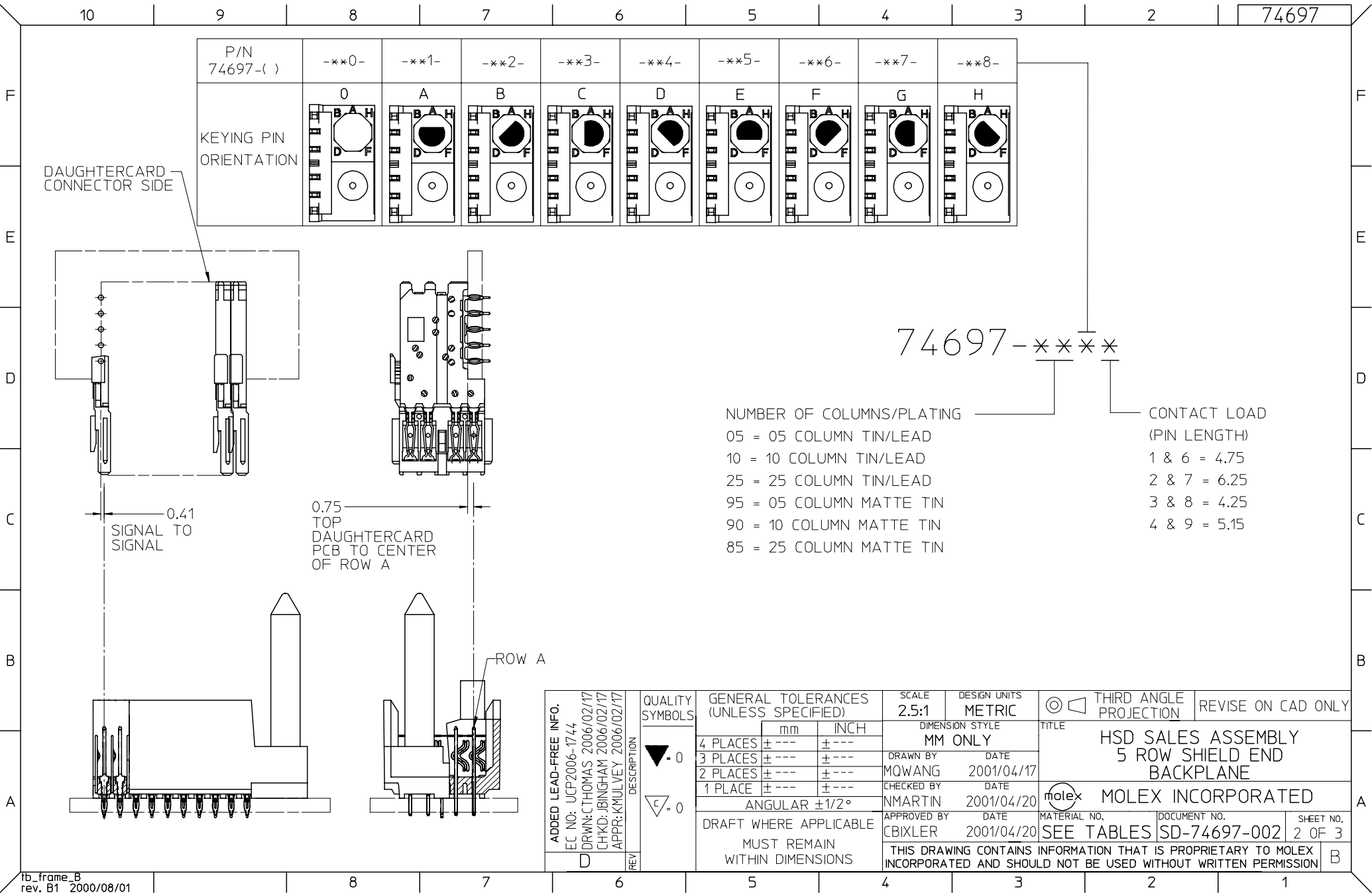


## NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED. UL 94 V-0. COLOR BLACK. SIGNAL & SHIELD -COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) ON PCB TAILS. NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER: PK-74696-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.



|                                                                                                                                 |  |             |                                                                                                                                                                                      |                                       |             |                 |                        |                                                                                                              |                    |                                                                                                          |  |              |  |           |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------|-----------------|------------------------|--------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------|--|--------------|--|-----------|--|--|
| ADDED LEAD-FREE INFO.<br>EC NO: UCP2006-4744<br>DRWN: THOMAS 2006/02/17<br>CHKD: BINGHAM 2006/02/17<br>APPR: KMULVEY 2006/02/17 |  | DESCRIPTION | QUALITY SYMBOLS                                                                                                                                                                      | GENERAL TOLERANCES (UNLESS SPECIFIED) |             | SCALE<br>2.5:1  | DESIGN UNITS<br>METRIC |  THIRD ANGLE PROJECTION | REVISE ON CAD ONLY |                                                                                                          |  |              |  |           |  |  |
|                                                                                                                                 |  |             |  0<br><br> 0 |                                       |             |                 |                        |                                                                                                              |                    |                                                                                                          |  |              |  | TITLE     |  |  |
|                                                                                                                                 |  |             |                                                                                                                                                                                      | mm                                    | INCH        | DIMENSION STYLE |                        |                                                                                                              |                    |                                                                                                          |  | MM ONLY      |  |           |  |  |
|                                                                                                                                 |  |             |                                                                                                                                                                                      | 4 PLACES                              | ± ---       | ± ---           | DRAWN BY               |                                                                                                              |                    |                                                                                                          |  | DATE         |  |           |  |  |
|                                                                                                                                 |  |             |                                                                                                                                                                                      | 3 PLACES                              | ± ---       | ± ---           | QWANG                  |                                                                                                              |                    |                                                                                                          |  | 2001/04/17   |  |           |  |  |
|                                              |  | REV         | 2 PLACES                                                                                                                                                                             | ± ---                                 | ± ---       | CHECKED BY      |                        | DATE                                                                                                         |                    |  MOLEX INCORPORATED |  |              |  |           |  |  |
|                                                                                                                                 |  |             | 1 PLACE                                                                                                                                                                              | ± ---                                 | ± ---       | NMARTIN         |                        | 2001/04/20                                                                                                   |                    |                                                                                                          |  |              |  |           |  |  |
|                                                                                                                                 |  |             | ANGULAR ±1/2°                                                                                                                                                                        |                                       | APPROVED BY |                 | DATE                   |                                                                                                              | MATERIAL NO.       |                                                                                                          |  | DOCUMENT NO. |  | SHEET NO. |  |  |
|                                                                                                                                 |  |             | DRAFT WHERE APPLICABLE                                                                                                                                                               |                                       | CBIXLER     |                 | 2001/04/20             |                                                                                                              | SEE SHT.2&3        |                                                                                                          |  | SD-74697-002 |  | 1 OF 3    |  |  |
|                                                                                                                                 |  |             | MUST REMAIN WITHIN DIMENSIONS                                                                                                                                                        |                                       |             |                 |                        |                                                                                                              |                    |                                                                                                          |  |              |  |           |  |  |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION   |  |             |                                                                                                                                                                                      |                                       |             |                 |                        |                                                                                                              |                    |                                                                                                          |  | B            |  |           |  |  |



10 9 8 7 6 5 4 3 2 74697

F F F F F F F F F F

E E E E E E E E E E

D D D D D D D D D D

C C C C C C C C C C

B B B B B B B B B B

A A A A A A A A A A

8 7 6 5 4 3 2 1

tb\_frame\_B  
rev. B1 2000/08/01

|                           |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| P/N<br>74697-( )          | ---0- | ---1- | ---2- | ---3- | ---4- | ---5- | ---6- | ---7- | ---8- |
| KEYING PIN<br>ORIENTATION | 0     | A     | B     | C     | D     | E     | F     | G     | H     |

74697-\*\*\*

NUMBER OF COLUMNS/PLATING  
05 = 05 COLUMN TIN/LEAD  
10 = 10 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
95 = 05 COLUMN MATTE TIN  
90 = 10 COLUMN MATTE TIN  
85 = 25 COLUMN MATTE TIN

CONTACT LOAD  
(PIN LENGTH)  
1 & 6 = 4.75  
2 & 7 = 6.25  
3 & 8 = 4.25  
4 & 9 = 5.15

|                                                                                                                                |                 |                |                                       |                                                            |                            |                                                                                                                                  |                                                              |  |                            |  |                              |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|---------------------------------------|------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--|----------------------------|--|------------------------------|
| ADDED LEAD-FREE INFO.<br>EC NO: UCP2006-1744<br>DRWN:CTHOMAS 2006/02/17<br>CHKD:JBINGHAM 2006/02/17<br>APPR:KMULVEY 2006/02/17 | QUALITY SYMBOLS | DESCRIPTION    | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                            | SCALE<br>2.5:1             | DESIGN UNITS<br>METRIC                                                                                                           | THIRD ANGLE PROJECTION                                       |  | REVISE ON CAD ONLY         |  |                              |
|                                                                                                                                |                 |                |                                       |                                                            |                            |                                                                                                                                  |                                                              |  |                            |  |                              |
|                                                                                                                                |                 |                |                                       |                                                            |                            |                                                                                                                                  |                                                              |  |                            |  |                              |
|                                                                                                                                |                 |                |                                       |                                                            |                            |                                                                                                                                  |                                                              |  |                            |  |                              |
| D                                                                                                                              | REV             | ▽=0<br><br>▽=0 |                                       |                                                            | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | TITLE<br>HSD SALES ASSEMBLY<br>5 ROW SHIELD END<br>BACKPLANE |  |                            |  |                              |
|                                                                                                                                |                 |                | 4 PLACES ± --- ± ---                  |                                                            | DRAWN BY<br>MQWANG         |                                                                                                                                  | DATE<br>2001/04/17                                           |  | MOLEX INCORPORATED         |  |                              |
|                                                                                                                                |                 |                | 3 PLACES ± --- ± ---                  |                                                            | CHECKED BY<br>NMARTIN      |                                                                                                                                  | DATE<br>2001/04/20                                           |  |                            |  |                              |
|                                                                                                                                |                 |                | 2 PLACES ± --- ± ---                  |                                                            | APPROVED BY<br>CBIXLER     |                                                                                                                                  | DATE<br>2001/04/20                                           |  | MATERIAL NO.<br>SEE TABLES |  | DOCUMENT NO.<br>SD-74697-002 |
| 1 PLACE ± --- ± ---                                                                                                            |                 | ANGULAR ±1/2°  |                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                              |  |                            |  |                              |
|                                                                                                                                |                 |                |                                       |                                                            |                            | B                                                                                                                                |                                                              |  |                            |  |                              |

