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Part Number:

0751949002

Status:

Active

Overview:

vhdm\_\_hsd

Description:

2.00mm (.079") Pitch VHDM® Lite-Series, Board-to-Board Backplane Header, Vertical, 6-Row, Open Signal Module, 60 Circuits, Pin Length 6.25mm (.246")

Documents:

Drawing (PDF)

Product Specification PS-74031-999 (PDF)

RoHS Certificate of Compliance (PDF)

General

|                               |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                            |
| Series                        | 75194                                                                           |
| Application                   | Backplane                                                                       |
| Application Tooling Documents | <a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">Tooling Manual</a> |
| Comments                      | Open Header                                                                     |
| Component Type                | PCB Header                                                                      |
| Overview                      | vhdm__hsd                                                                       |
| Product Name                  | VHDM Lite®                                                                      |
| Style                         | N/A                                                                             |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 60                             |
| Circuits (maximum)             | 60                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 200                            |
| First Mate / Last Break        | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Material - Metal               | High Performance Alloy (HPA)   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | 10                             |
| Number of Pairs                | Open Pin Field                 |
| Number of Rows                 | 6                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.098 In                       |
| PC Tail Length (mm)            | 2.50 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.071 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                        |
| Pitch - Term. Interface (in)   | 0.079 In                       |
| Pitch - Term. 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               | No                             |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |

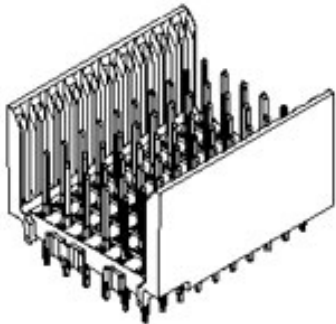


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Reviewed

China RoHS



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

75194Series

Mates With

75189 VHDM® Lite Board-to-Board Daughtercard

Use With

Daughtercard Modules

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                        | 0622015700 |
| Insertor Repair Tool                    |            |
| VHDM® Insertion                         | 0622020207 |
| Module for Advanced Mate Signal Header, |            |

|                               |                              |                                      |
|-------------------------------|------------------------------|--------------------------------------|
| Temperature Range - Operating | 105°C                        | 6 Row by 10 Wide,<br>20.00mm (.787") |
| Termination Interface: Style  | Through Hole - Compliant Pin |                                      |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 2A               |
| Data Rate                     | 622.0 Mbps       |
| Real Signals (per 25mm)       | 75               |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

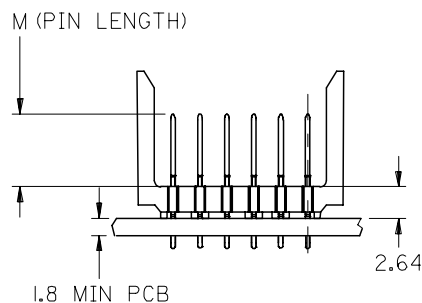
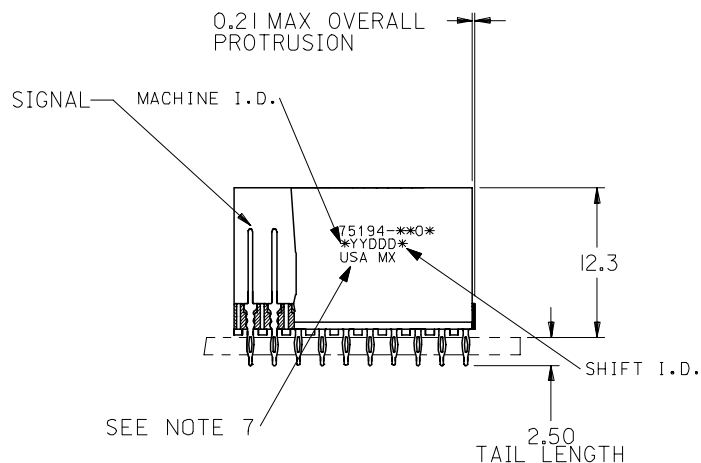
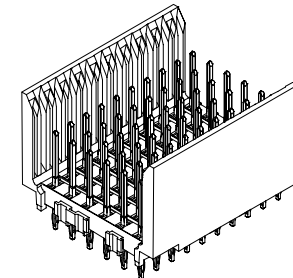
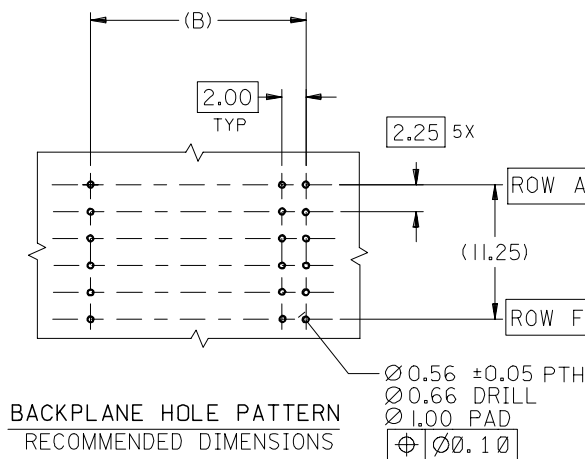
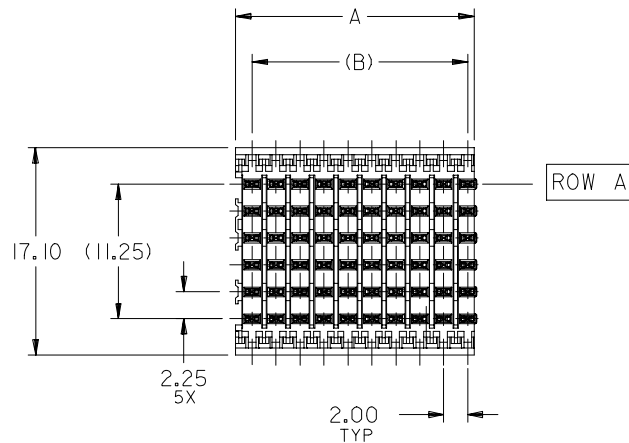
**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-74057-003 |
| Product Specification   | PS-74031-999 |
| Sales Drawing           | SD-75194-001 |

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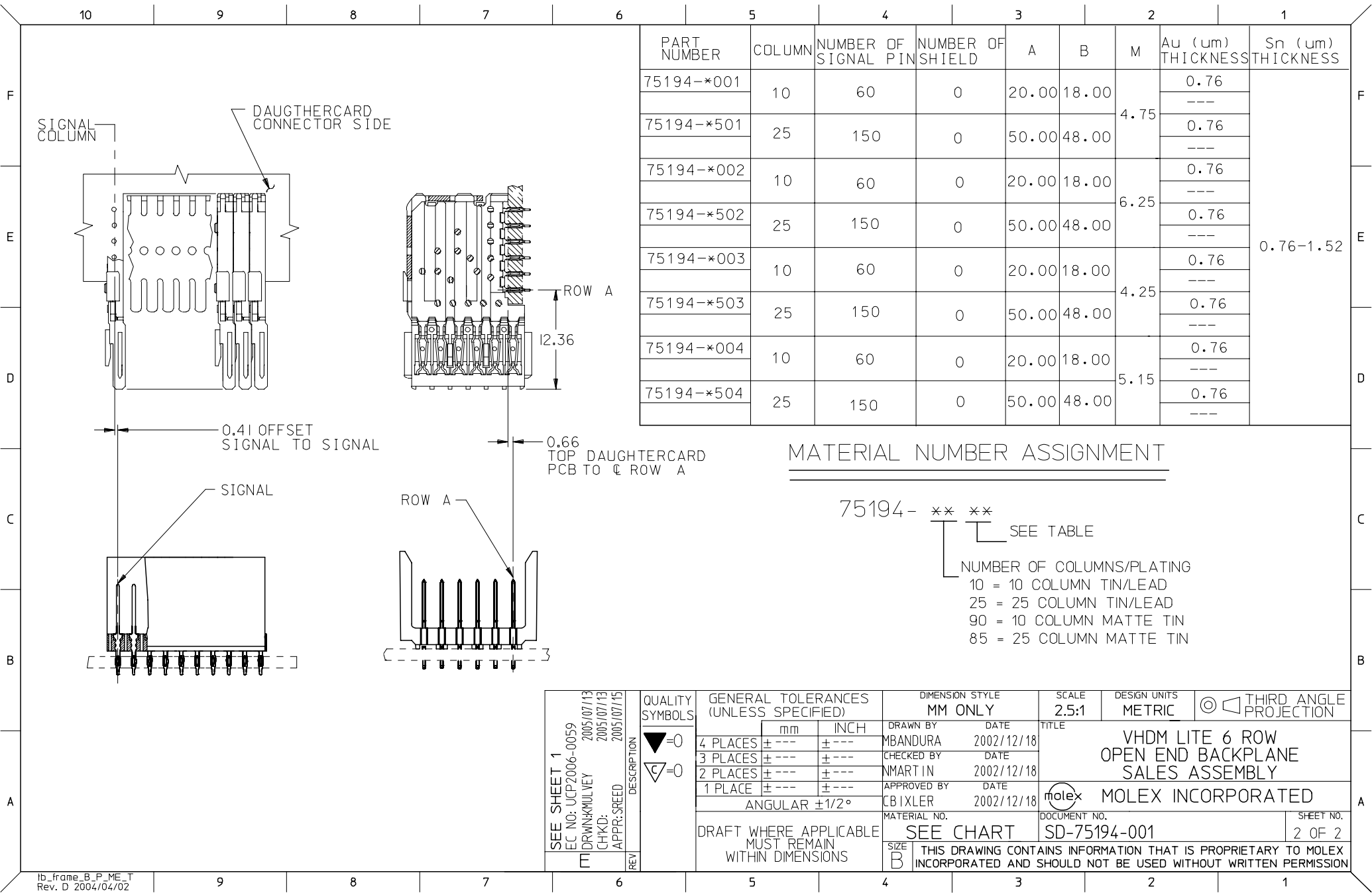
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#### NOTES:

1. MATERIALS:  
HOUSING - LIQUID CRYSTAL POLYMER (LCP),  
GLASS-FILLED, UL 94V-0, COLOR: BLACK  
SIGNAL PIN - COPPER ALLOY
2. FINISHES:  
CONTACT AREA: SELECTIVE GOLD (Au)  
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb)  
OR SELECTIVE MATTE TIN (Sn)  
NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT  
SPECIFICATION PS-74031-999
4. FOR MIXED CONTACT LENGTHS CONSULT  
MOLEX FOR AVAILABILITY
5. FOR SPECIFIC MATERIAL NUMBERS & MATING  
INFORMATION REFER TO SHEET 2
6. PACKAGE PER PK-74057-003
7. EITHER MARK PART WITH PART NUMBER & DATE  
CODE APPROXIMATELY WHERE SHOWN OR PLACE  
LABEL ON THE TUBE.

|                                                                                                                           |                    |                                   |                                                            |       |                            |                                                                                                                                  |                     |                                                                      |                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------|------------------------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ADD LEADFREE PINS<br>EC NO: UCP2006-0059<br>IDRWK/MULVEY 2005/07/13<br>CHKD: BINGHAM 2005/07/13<br>APPR: SREED 2005/07/15 | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>2.5:1      | DESIGN UNITS<br>METRIC                                               |  THIRD ANGLE<br>PROJECTION |
|                                                                                                                           |                    |                                   |                                                            | mm    | INCH                       | DRAWN BY<br>MBANDURA                                                                                                             | DATE<br>2002/12/18  | TITLE<br><br>VHDM LITE 6 ROW<br>OPEN END BACKPLANE<br>SALES ASSEMBLY |                                                                                                                 |
|                                                                                                                           |                    |                                   | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>NMARTIN                                                                                                            | DATE<br>2002/12/18  |                                                                      |                                                                                                                 |
|                                                                                                                           |                    |                                   | 3 PLACES                                                   | ± --- | ± ---                      | APPROVED BY<br>CBIXLER                                                                                                           | DATE<br>2002/12/18  |                                                                      |                                                                                                                 |
|                                                                                                                           |                    |                                   | 2 PLACES                                                   | ± --- | ± ---                      | MOLEX INCORPORATED                                                                                                               |                     |                                                                      |                                                                                                                 |
|                                                                                                                           |                    |                                   | 1 PLACE                                                    | ± --- | ± ---                      |                                                                                                                                  |                     |                                                                      |                                                                                                                 |
|                                                                                                                           |                    |                                   | ANGULAR ±1/2°                                              |       | MATERIAL NO.<br>SEE SHT 2  | DOCUMENT NO.<br>SD-75194-001                                                                                                     | SHEET NO.<br>1 OF 2 |                                                                      |                                                                                                                 |
|                                                                                                                           |                    |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SIZE<br>B                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                     |                                                                      |                                                                                                                 |



| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|-------------------|
| 75194-*001  | 10     | 60                   | 0                | 20.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*501  | 25     | 150                  | 0                | 50.00 | 48.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       | 6.25 | ---               |                   |
| 75194-*002  | 10     | 60                   | 0                | 20.00 | 18.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*502  | 25     | 150                  | 0                | 50.00 | 48.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       | 4.25 | ---               |                   |
| 75194-*003  | 10     | 60                   | 0                | 20.00 | 18.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*503  | 25     | 150                  | 0                | 50.00 | 48.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       | 5.15 | ---               |                   |
| 75194-*004  | 10     | 60                   | 0                | 20.00 | 18.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*504  | 25     | 150                  | 0                | 50.00 | 48.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |

MATERIAL NUMBER ASSIGNMENT

75194- \*\* \*\*  
SEE TABLE

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

|                                                                                                             |                                                            |             |                                       |  |                                                                                                                                  |                    |                                                                                            |                        |                        |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------|------------------------|------------------------|
| SEE SHEET 1<br>EC NO: UCP2006-0059<br>DRAWN:MULVEY 2005/07/13<br>CHKD: 2005/07/13<br>APPR: SREED 2005/07/15 | QUALITY SYMBOLS<br><br>▽=0<br>◻=0                          | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE<br>MM ONLY                                                                                                       |                    | SCALE<br>2.5:1                                                                             | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |
|                                                                                                             |                                                            |             |                                       |  | DRAWN BY<br>MBANDURA                                                                                                             | DATE<br>2002/12/18 | TITLE<br>VHDM LITE 6 ROW<br>OPEN END BACKPLANE<br>SALES ASSEMBLY<br><br>MOLEX INCORPORATED |                        |                        |
|                                                                                                             |                                                            |             |                                       |  | CHECKED BY<br>NMARTIN                                                                                                            | DATE<br>2002/12/18 |                                                                                            |                        |                        |
|                                                                                                             |                                                            |             |                                       |  | APPROVED BY<br>CBIXLER                                                                                                           | DATE<br>2002/12/18 |                                                                                            |                        |                        |
|                                                                                                             |                                                            |             | ANGULAR ±1/2°                         |  | MATERIAL NO.<br>SEE CHART                                                                                                        |                    |                                                                                            |                        |                        |
|                                                                                                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |             | SIZE<br>B                             |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                            |                        |                        |
| REV                                                                                                         |                                                            |             |                                       |  |                                                                                                                                  |                    |                                                                                            |                        |                        |

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