

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0751942501](#)  
**Status:** **Active**  
**Overview:** vhdm\_\_hsd  
**Description:** 2.00mm (.079") Pitch VHDM® Lite-Series, Board-to-Board Backplane Header, Vertical, 6-Row, Open Signal Module, 150 Circuits, Pin Length 4.75mm (.187")

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-74031-999 \(PDF\)](#)

**General**

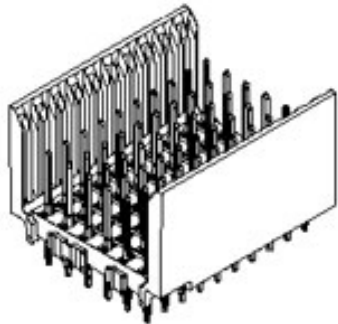
|                               |                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------|
| Product Family                | Backplane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

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 150                            |
| Circuits (maximum)             | 150                            |
| 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-Lead                       |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | 25                             |
| Number of Pairs                | Open Pin Field                 |
| Number of Rows                 | 6                              |
| Orientation                    | Vertical                       |
| PCB Retention                  | Yes                            |
| 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   |

**Electrical**

|                               |    |
|-------------------------------|----|
| Current - Maximum per Contact | 1A |
|-------------------------------|----|



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**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    | <a href="#">0622015700</a> |
| Insert Repair Tool  |                            |
| VHDM® Insertion     | <a href="#">0622020208</a> |
| Module for Standard |                            |
| Shield Signal       |                            |
| Header, 6 Row by    |                            |

Data Rate622.0 Mbps  
Real Signals (per 25mm)72  
Voltage - Maximum120V AC (RMS)/DC

25 Wide, 50.00mm  
(1.97")

Material Info

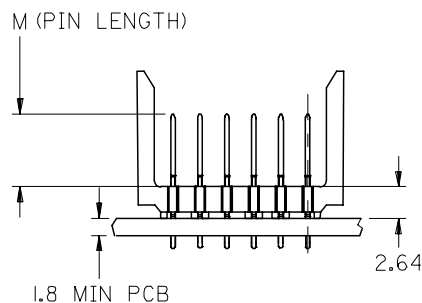
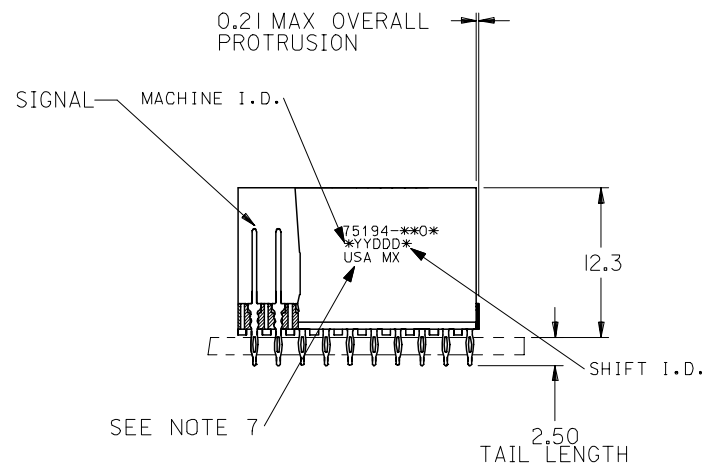
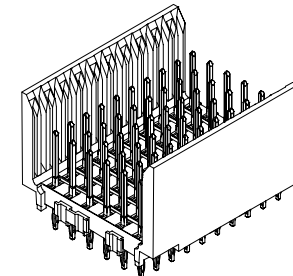
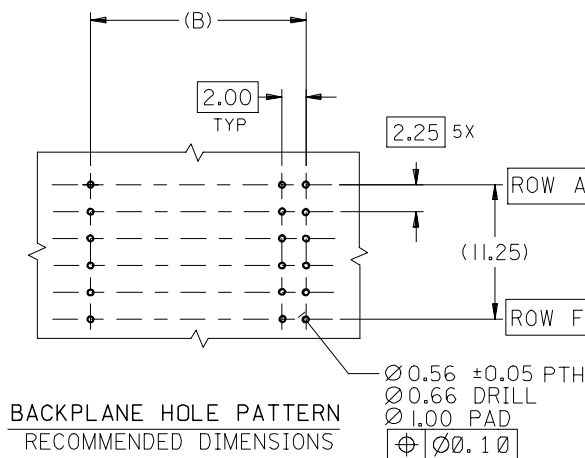
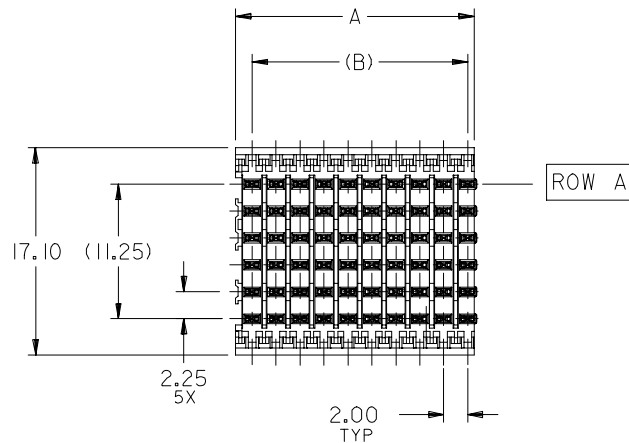
Reference - Drawing Numbers

Packaging SpecificationPK-74057-003  
Product SpecificationPS-74031-999  
Sales DrawingSD-75194-001

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This document was generated on 05/28/2010

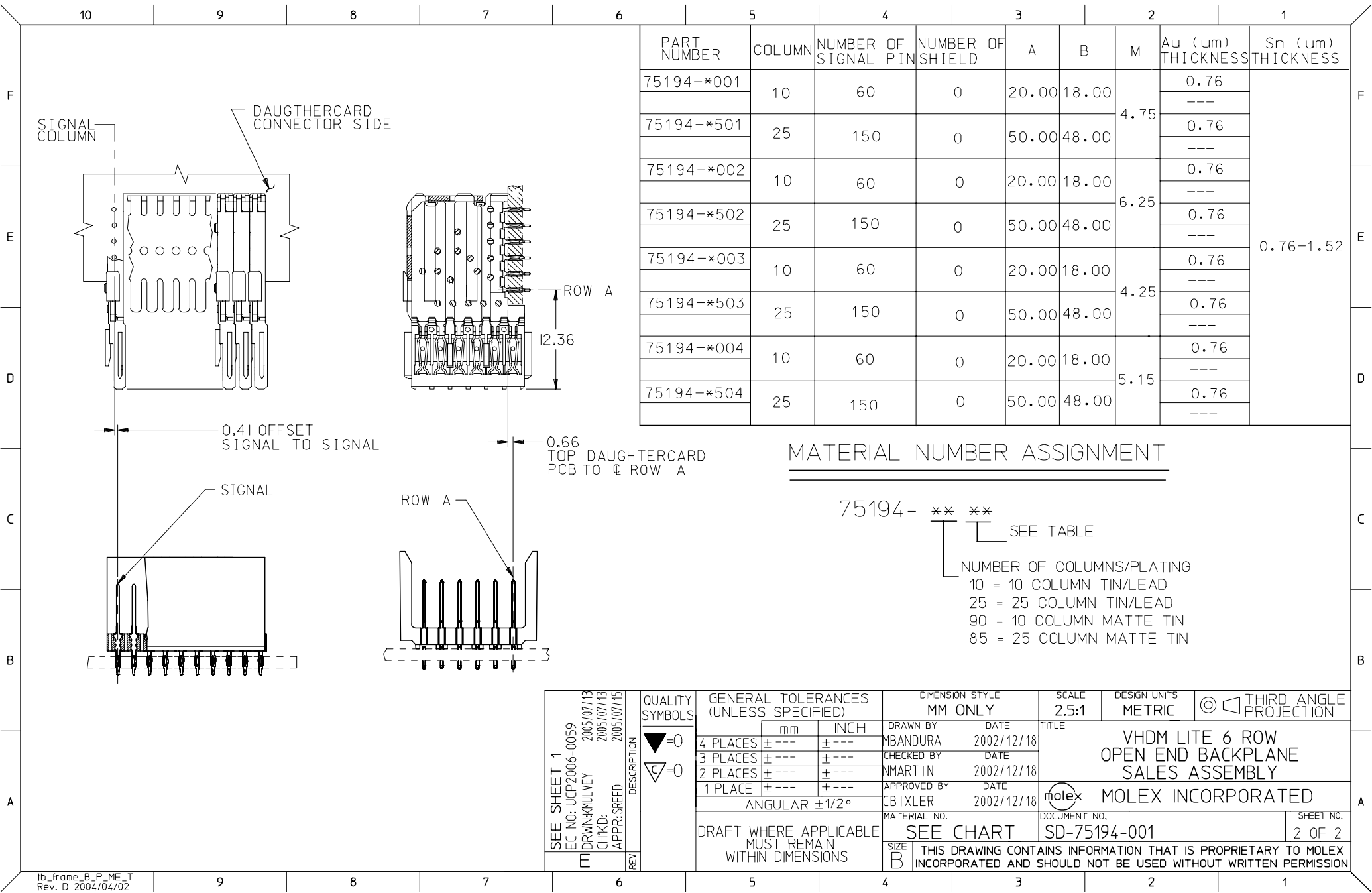
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#### NOTES:

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>DRINKMULVEY 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 PROJECTION<br> |                     |  |  |  |
|                                                                                                                          |                    |                                   |                                                            | mm                                                                                                                            | INCH                       | DRAWN BY<br>MBANDURA      | DATE<br>2002/12/18 | TITLE<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                                                   | ± ---                                                                                                                         | ± ---                      | MATERIAL NO.<br>SEE SHT 2 |                    | DOCUMENT NO.<br>SD-75194-001                                     |                                                                                                                 | SHEET NO.<br>1 OF 2 |  |  |  |
|                                                                                                                          |                    |                                   | 1 PLACE                                                    | ± ---                                                                                                                         | ± ---                      |                           |                    |                                                                  |                                                                                                                 |                     |  |  |  |
|                                                                                                                          |                    |                                   | ANGULAR ±1/2°                                              |                                                                                                                               | MOLEX INCORPORATED         |                           |                    |                                                                  |                                                                                                                 |                     |  |  |  |
|                                                                                                                          |                    |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                                                                                                               |                            |                           |                    |                                                                  |                                                                                                                 |                     |  |  |  |
|                                                                                                                          |                    | SIZE<br>B                         |                                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX 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              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*002  | 10     | 60                   | 0                | 20.00 | 18.00 | 6.25 | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*502  | 25     | 150                  | 0                | 50.00 | 48.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*003  | 10     | 60                   | 0                | 20.00 | 18.00 | 4.25 | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*503  | 25     | 150                  | 0                | 50.00 | 48.00 |      | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
| 75194-*004  | 10     | 60                   | 0                | 20.00 | 18.00 | 5.15 | 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>DRWN:K.MULVEY 2005/07/13<br>CHKD: 2005/07/13<br>APPR: SREED 2005/07/15 | QUALITY SYMBOLS<br><br>▽=0<br><br>C=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY |  | SCALE<br>2.5:1                                                                                                                | DESIGN UNITS<br>METRIC                                                                         | THIRD ANGLE PROJECTION<br> |                     |
|                                                                                                              |                                       |             |                                                            |  | DRAWN BY<br>MBANDURA       |  | DATE<br>2002/12/18                                                                                                            | TITLE<br><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                                                                                                            |                                                                                                |                                                                                                                 |                     |
|                                                                                                              |                                       |             |                                                            |  | MATERIAL NO.<br>SEE CHART  |  | DOCUMENT NO.<br>SD-75194-001                                                                                                  |                                                                                                |                                                                                                                 | SHEET NO.<br>2 OF 2 |
|                                                                                                              |                                       |             |                                                            |  | SIZE<br>B                  |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                |                                                                                                                 |                     |
| REV                                                                                                          |                                       |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |                            |  |                                                                                                                               |                                                                                                |                                                                                                                 |                     |