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**Part Number:** [0751962502](#)  
**Status:** **Active**  
**Overview:** vhdm\_hsd  
**Description:** 2.00mm (.079") Pitch 6-Row VHDM® Lite Backplane Header, Right Shield End Version, 6 Row, 150 Circuits, Pin Length 6.25mm (.246")

**Documents:**

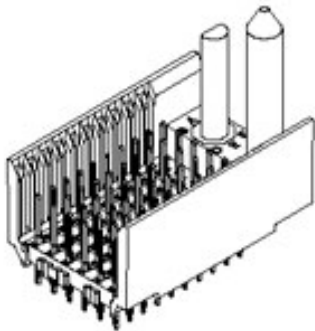
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-74031-999 \(PDF\)](#)

**General**

|                               |                                                                                                                                         |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                                                                                    |
| Series                        | <a href="#">75196</a>                                                                                                                   |
| Application                   | Backplane                                                                                                                               |
| Application Tooling Documents | <a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">http://www.molex.com/pdm_docs/ats/TM-622010999.pdf</a> >Tooling Manual</a> |
| Comments                      | No Keying Position                                                                                                                      |
| 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           | 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              | 25                                            |
| 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                                           |



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**Halogen-Free**

**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**

[75196Series](#)

**Mates With**

[75189](#) VHDM® Lite Board-to-Board Daughtercard

**Use With**

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

|                               |                              |                             |
|-------------------------------|------------------------------|-----------------------------|
| Temperature Range - Operating | 105°C                        | 25 Wide, 50.00mm<br>(1.97") |
| Termination Interface: Style  | Through Hole - Compliant Pin |                             |

**Electrical**

|                               |                  |
|-------------------------------|------------------|
| Current - Maximum per Contact | 1A               |
| Data Rate                     | 622.0 Mbps       |
| Real Signals (per 25mm)       | 75               |
| Shielded                      | No               |
| Voltage - Maximum             | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-74031-999 |
| Sales Drawing         | SD-75196-001 |

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BACKPLANE HOLE PATTERN  
RECOMMENDED DIMENSIONS

Ø0.56 ±0.05 PTH  
Ø0.66 DRILL  
Ø1.00 PAD  
⊕ Ø0.10



- 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-74058-003
  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>DRWNG/MULVEY 2005/07/13<br>CHKD: 2005/07/13<br>APPR: SREED 2005/07/15 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | DIMENSION STYLE<br>MM ONLY   |                          | SCALE<br>2.5:1                                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |                     |
|                                                                                                                   |             |                                                  | mm                                    | INCH                                                                                                                          | DRAWN BY<br>MBANDURA         | DATE<br>2003/01/17       | TITLE<br>VHDM LITE 6 ROW<br>SHIELD END BACKPLANE<br>SALES ASSEMBLY |                        |                        |  |                     |
|                                                                                                                   |             |                                                  | 4 PLACES ± --- ± ---                  | CHECKED BY<br>NMARTIN                                                                                                         | DATE<br>2003/01/17           |                          |                                                                    |                        |                        |  |                     |
|                                                                                                                   |             |                                                  | 3 PLACES ± --- ± ---                  | APPROVED BY<br>CBIXLER                                                                                                        | DATE<br>2003/01/17           | molex MOLEX INCORPORATED |                                                                    |                        |                        |  |                     |
|                                                                                                                   |             |                                                  | 2 PLACES ± --- ± ---                  | MATERIAL NO.<br>SEE SHEET 2                                                                                                   | DOCUMENT NO.<br>SD-75196-001 |                          |                                                                    |                        |                        |  | SHEET NO.<br>1 OF 2 |
|                                                                                                                   |             |                                                  | 1 PLACE ± --- ± ---                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                              |                          |                                                                    |                        |                        |  |                     |
|                                                                                                                   |             |                                                  | ANGULAR ±1/2°                         |                                                                                                                               |                              |                          |                                                                    |                        |                        |  |                     |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                        |             |                                                  |                                       |                                                                                                                               |                              |                          |                                                                    |                        |                        |  |                     |

|                           |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| M/N<br>75196-( )          | ---0* | ---1* | ---2* | ---3* | ---4* | ---5* | ---6* | ---7* | ---8* |
| KEYING PIN<br>ORIENTATION | O     | A     | B     | C     | D     | E     | F     | G     | H     |

75196-\*\*\*

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

CONTACT LOAD  
(PIN HEIGHT)  
1 = 4.75  
2 = 6.25  
3 = 4.25  
4 = 5.15



| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|-------------------|
| 75196-*0*1  | 10     | 60                   | 0                | 27.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
| 75196-*5*1  | 25     | 150                  | 0                | 57.00 | 48.00 | 4.75 | 0.76              |                   |
| 75196-*0*2  | 10     | 60                   | 0                | 27.00 | 18.00 | 6.25 | 0.76              |                   |
| 75196-*5*2  | 25     | 150                  | 0                | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 75196-*0*3  | 10     | 60                   | 0                | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 75196-*5*3  | 25     | 150                  | 0                | 57.00 | 48.00 | 4.25 | 0.76              |                   |
| 75196-*0*4  | 10     | 60                   | 0                | 27.00 | 18.00 | 5.15 | 0.76              |                   |
| 75196-*5*4  | 25     | 150                  | 0                | 57.00 | 48.00 | 5.15 | 0.76              |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
|             |        |                      |                  |       |       |      | ---               |                   |
|             |        |                      |                  |       |       |      | ---               |                   |

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