

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0751962513

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 4.25mm (.167")

Documents:

Drawing (PDF)

Product Specification PS-74031-999 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Application Tooling Documents

Comments

Component Type

Overview

Product Name

Style

Backplane Connectors

75196

Backplane

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

Keying Position A

PCB Header

vhdm\_\_hsd

VHDM Lite®

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Guide to Mating Part

Keying to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Columns

Number of Pairs

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to PCB

Stackable

Surface Mount Compatible (SMC)

150

150

Black

200

No

Yes

Yes

High Performance Alloy (HPA), Stainless Steel

Gold

Tin-Lead

High Temperature Thermoplastic

25

Open Pin Field

6

Vertical

0.098 In

2.50 mm

No

Yes

0.071 In

1.80 mm

Tube

0.079 In

2.00 mm

0.079 In

2.00 mm

30

0.75

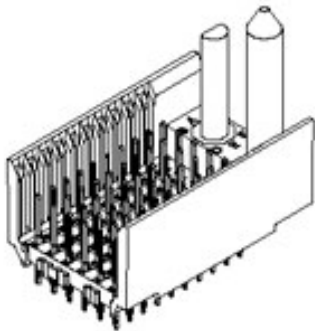
30

0.75

No

No

Yes



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

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

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 Inserter Repair Tool                              | 0622015700 |
| VHDM® Insertion Module for Standard Shield Signal Header, 6 Row by | 0622020208 |

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

**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**

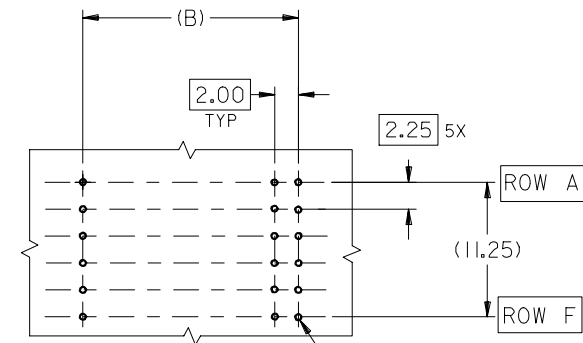
**Reference - Drawing Numbers**

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

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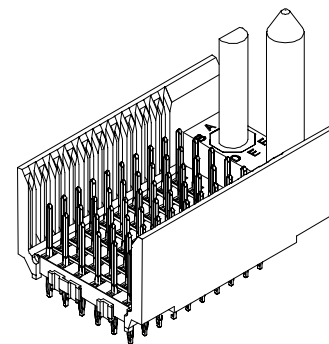
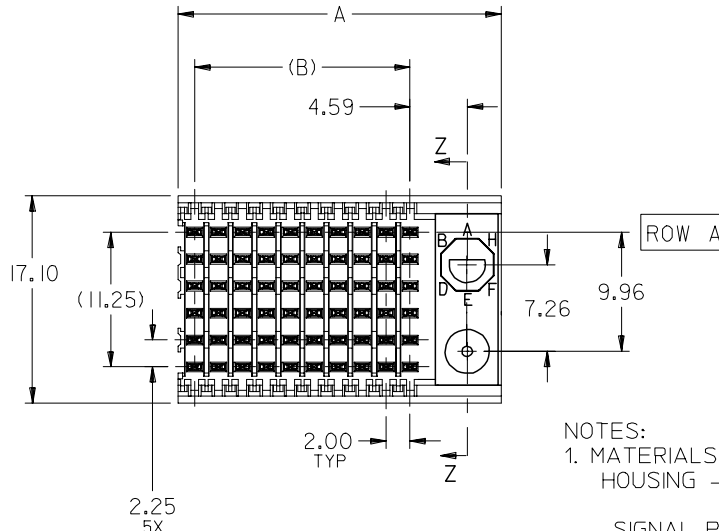
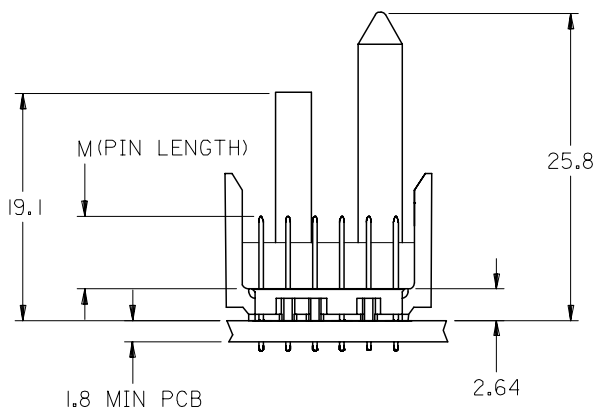
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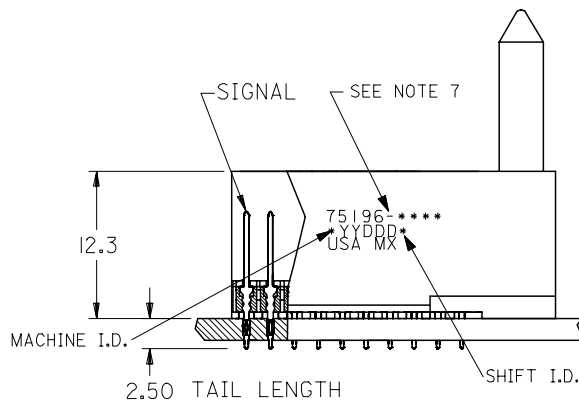


BACKPLANE HOLE PATTERN  
RECOMMENDED DIMENSIONS

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.



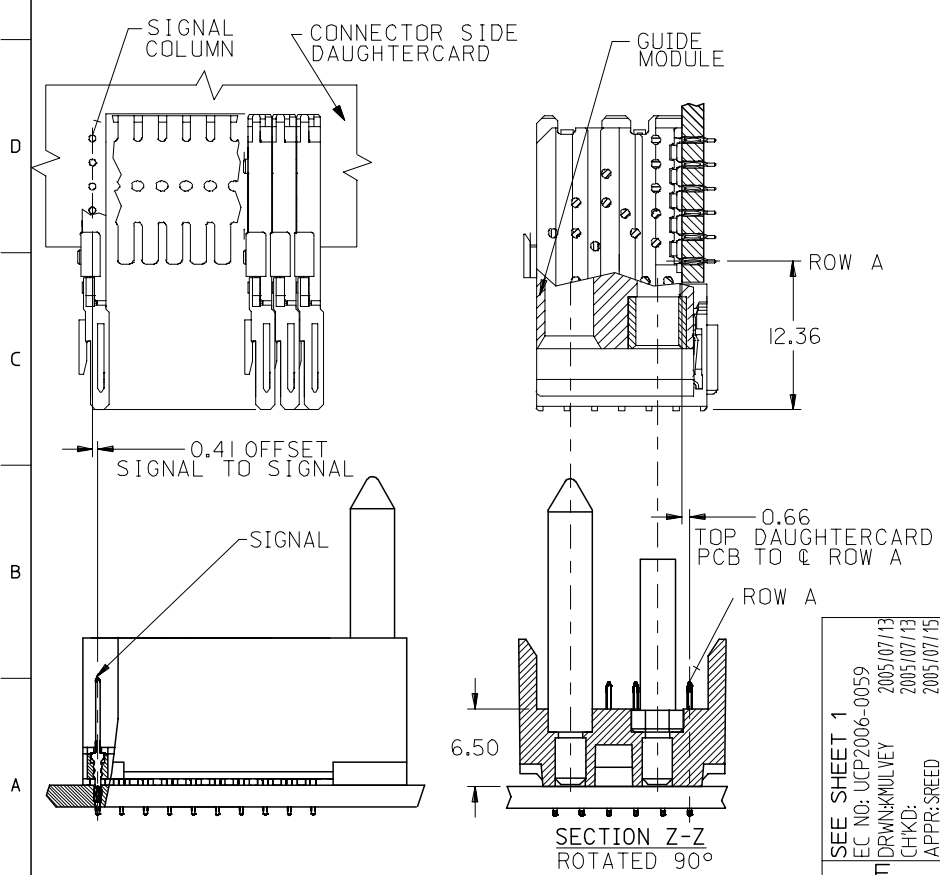
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|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------|--------------------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-----------|--|
| 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 | 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                 | DATE<br>2003/01/17 |                                                                                                                                  |                        |                        |           |  |
|                                                                                                                   |                                                  | 3 PLACES                                                   | ± --- ± ---        | NMARTIN                    | DATE<br>2003/01/17 |                                                                                                                                  |                        |                        |           |  |
|                                                                                                                   |                                                  | 2 PLACES                                                   | ± --- ± ---        | APPROVED BY                | DATE<br>2003/01/17 | MOLEX MOLEX INCORPORATED                                                                                                         |                        |                        |           |  |
| 1 PLACE                                                                                                           | ± --- ± ---                                      | CBIXLER                                                    | DATE<br>2003/01/17 |                            |                    |                                                                                                                                  |                        |                        |           |  |
|                                                                                                                   |                                                  | ANGULAR ±1/2°                                              |                    | MATERIAL NO.               |                    | DOCUMENT NO.                                                                                                                     |                        |                        | SHEET NO. |  |
|                                                                                                                   |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                    | SEE SHEET 2                |                    | SD-75196-001                                                                                                                     |                        |                        | 1 OF 2    |  |
|                                                                                                                   |                                                  |                                                            |                    | SIZE<br>B                  |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |           |  |

|                           |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 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              |                   |
| 75196-*0*1  | 10     | 60                   | 0                | 27.00 | 18.00 | 4.75 | ---               |                   |
| 75196-*5*1  | 25     | 150                  | 0                | 57.00 | 48.00 | 4.75 | ---               |                   |
| 75196-*0*2  | 10     | 60                   | 0                | 27.00 | 18.00 | 6.25 | ---               |                   |
| 75196-*5*2  | 25     | 150                  | 0                | 57.00 | 48.00 | 6.25 | ---               |                   |