

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** **0751952514**  
**Status:** **Active**  
**Overview:** vhdm\_hsd  
**Description:** 2.00mm (.079") Pitch 6-Row VHDM® Lite Backplane Header, Left Shield End Version, 6 Row, 150 Circuits, Pin Length 5.15mm (.203")

**Documents:**

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

**General**

Product Family	Backplane Connectors
Series	75195
Application	Backplane
Application Tooling Documents	<a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">Tooling Manual</a>
Comments	Keying Position A
Component Type	PCB Header
Overview	vhdm_hsd
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	Yes
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

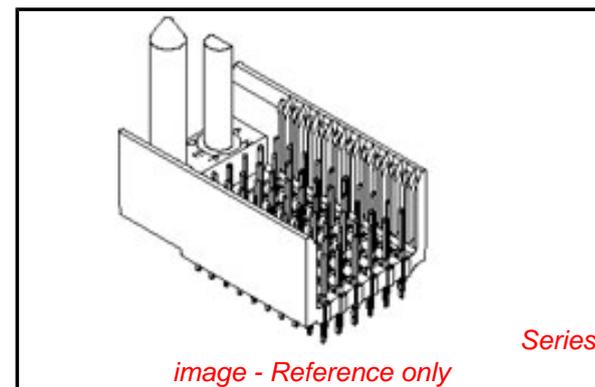


image - Reference only

**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**

75195Series

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

Temperature Range - Operating  
Termination Interface: Style

105°C  
Through Hole - Compliant Pin

25 Wide, 50.00mm  
(1.97")

### Electrical

Current - Maximum per Contact 2A  
Data Rate 622.0 Mbps  
Real Signals (per 25mm) 76  
Shielded No  
Voltage - Maximum 120V AC (RMS)/DC

### Material Info

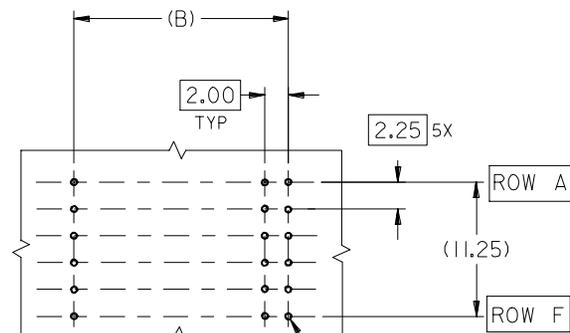
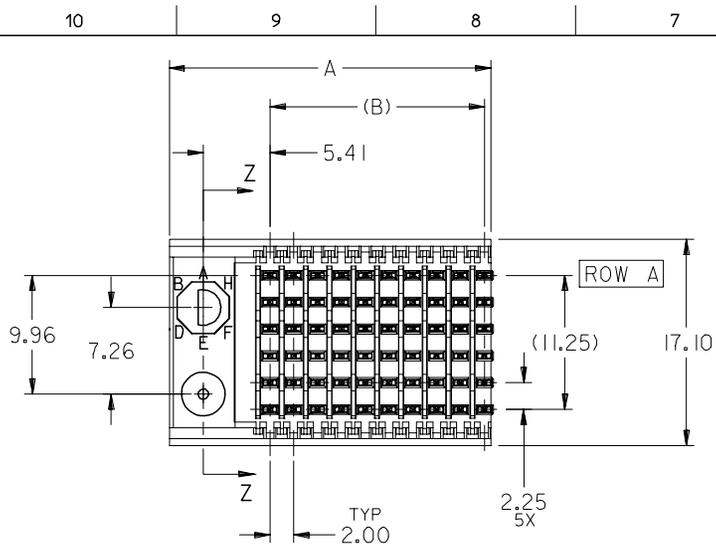
### Reference - Drawing Numbers

Product Specification PS-74031-999  
Sales Drawing SD-75195-001

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This document was generated on 05/28/2010

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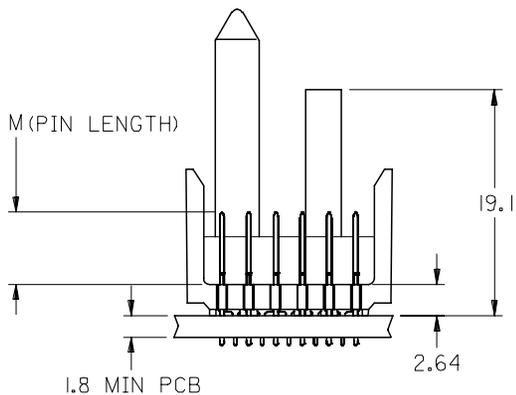
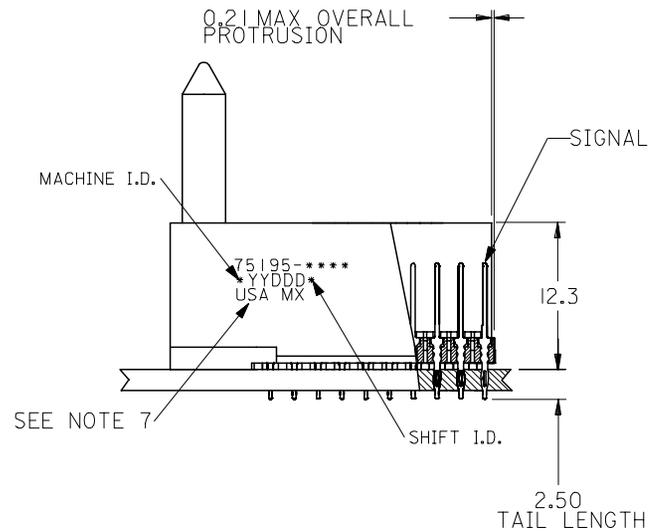
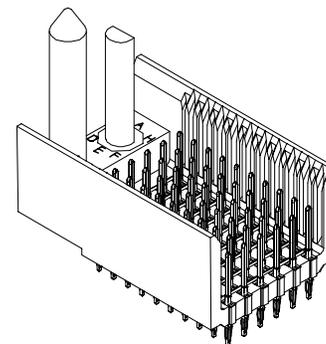


BACKPLANE HOLE PATTERN  
RECOMMENDED DIMENSIONS

$\varnothing 0.56 \pm 0.05$  PTH  
 $\varnothing 0.66$  DRILL  
 $\varnothing 1.00$  PAD  
 $\varnothing \varnothing 0.10$

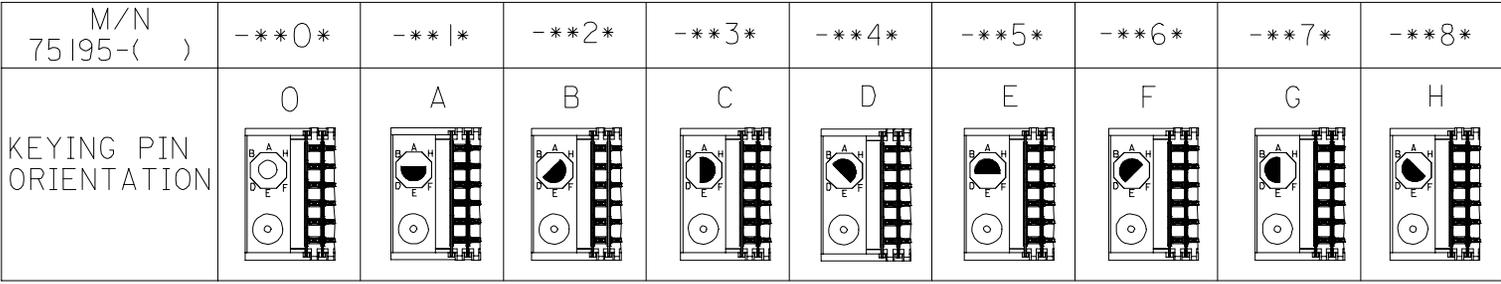
NOTES:

- MATERIALS:  
HOUSING - LIQUID CRYSTAL POLYMER (LCP),  
GLASS-FILLED, UL 94V-0, COLOR: BLACK  
SIGNAL PIN - COPPER ALLOY
- FINISHES:  
CONTACT AREA: SELECTIVE GOLD (Au)  
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb)  
OR SELECTIVE MATTE TIN (Sn)  
NICKEL (Ni) OVERALL.
- THIS PART CONFORMS TO MOLEX PRODUCT  
SPECIFICATION PS-74031-999
- FOR MIXED CONTACT LENGTHS CONSULT  
MOLEX FOR AVAILABILITY
- FOR SPECIFIC MATERIAL NUMBERS & MATING  
INFORMATION REFER TO SHEET 2
- PACKAGE PER PK-74058-003
- EITHER MARK PART WITH PART NUMBER & DATE  
CODE APPROXIMATELY WHERE SHOWN OR PLACE  
LABEL ON THE TUBE.



ADD LEADFREE PINS EC NO: UCP2006-0059 DRWN: KMULVEY 2005/07/13 CHKD: 2005/07/13 APPR: SREED 2005/07/15	DESCRIPTION REV	QUALITY SYMBOLS $\nabla=0$ $\nabla=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2.5:1	DESIGN UNITS METRIC	$\odot$ THIRD ANGLE PROJECTION																									
		<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td><math>\pm</math>---</td> <td><math>\pm</math>---</td> </tr> <tr> <td>3 PLACES</td> <td><math>\pm</math>---</td> <td><math>\pm</math>---</td> </tr> <tr> <td>2 PLACES</td> <td><math>\pm</math>---</td> <td><math>\pm</math>---</td> </tr> <tr> <td>1 PLACE</td> <td><math>\pm</math>---</td> <td><math>\pm</math>---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	$\pm$ ---	$\pm$ ---	3 PLACES	$\pm$ ---	$\pm$ ---	2 PLACES	$\pm$ ---	$\pm$ ---	1 PLACE	$\pm$ ---	$\pm$ ---	<table border="1"> <thead> <tr> <th>DRAWN BY</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>MBANDURA</td> <td>2003/01/06</td> </tr> <tr> <th>CHECKED BY</th> <th>DATE</th> </tr> <tr> <td>NMARTIN</td> <td>2003/01/06</td> </tr> <tr> <th>APPROVED BY</th> <th>DATE</th> </tr> <tr> <td>CBIXLER</td> <td>2003/01/06</td> </tr> </tbody> </table>	DRAWN BY	DATE	MBANDURA	2003/01/06	CHECKED BY	DATE	NMARTIN	2003/01/06	APPROVED BY	DATE	CBIXLER	2003/01/06	TITLE VHDM LITE 6 ROW SIGNAL END BACKPLANE SALES ASSEMBLY		MOLEX INCORPORATED	
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 2	DOCUMENT NO. SD-75195-001	SHEET NO. 1 OF 2																														

10 9 8 7 6 5 4 3 2 1



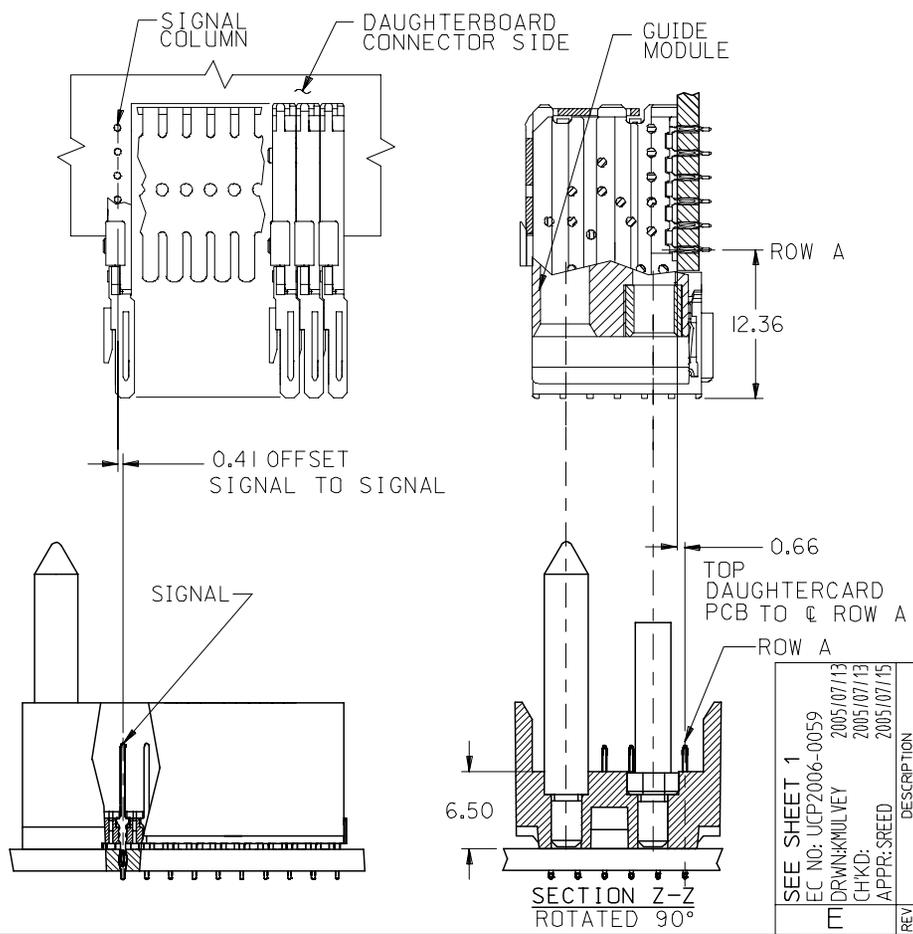
75195 \* \* \* \*

COLUMN/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
75195-*0*1	10	60	0	27.00	18.00	4.75	0.76	0.76-1.52
75195-*5*1	25	150	0	57.00	48.00		---	
75195-*0*2	10	60	0	27.00	18.00	6.25	0.76	
75195-*5*2	25	150	0	57.00	48.00		---	
75195-*0*3	10	60	0	27.00	18.00	4.25	0.76	
75195-*5*3	25	150	0	57.00	48.00		---	
75195-*0*4	10	60	0	27.00	18.00	5.15	0.76	
75195-*5*4	25	150	0	57.00	48.00		---	

SEE SHEET 1  
EC NO: UCP2006-0059  
DRWN: KMILVEY 2005/07/13  
CHKD: 2005/07/13  
APPR: SREED 2005/07/15

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE  
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

SCALE  
2.5:1

DESIGN UNITS  
METRIC

THIRD ANGLE PROJECTION

DRAWN BY: MBANDURA DATE: 2003/01/06  
CHECKED BY: NMARTIN DATE: 2003/01/06  
APPROVED BY: CBIXLER DATE: 2003/01/06

TITLE  
VHDM LITE 6 ROW  
SIGNAL END BACKPLANE  
SALES ASSEMBLY

MATERIAL NO.  
SEE CHART

DOCUMENT NO.  
SD-75195-001

SHEET NO.  
2 OF 2

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