

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0749790904

Status:

Active

Overview:

vhdm\_\_hsd

Description:

2.00mm (.079") Pitch 6-Row VHDM-HSD™ Backplane Header, Open Module, 36 Circuits, Gold (Au) Selective 0.76µm (30µ"), Pin Length 5.15mm (.203")

Documents:

Drawing (PDF)

Product Specification PS-74031-999 (PDF)

RoHS Certificate of Compliance (PDF)

General

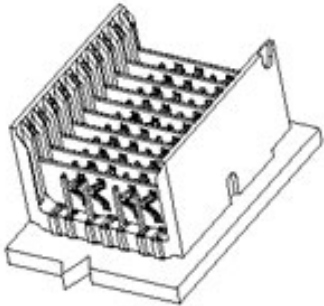
|                               |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                            |
| Series                        | 74979                                                                           |
| 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-HSD™                                                                       |
| Style                         | N/A                                                                             |

Physical

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Circuits (Loaded)              | 36                                                  |
| Circuits (maximum)             | 36                                                  |
| 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               | Copper-Nickel-Silicon, High Performance Alloy (HPA) |
| Material - Plating Mating      | Gold                                                |
| Material - Plating Termination | Tin-Lead                                            |
| Material - Resin               | High Temperature Thermoplastic                      |
| Number of Columns              | 9                                                   |
| Number of Pairs                | Open Pin Field                                      |
| Number of Rows                 | 6                                                   |
| Orientation                    | Vertical                                            |
| PCB Retention                  | None                                                |
| 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

Not Reviewed

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

74979Series

Mates With

74880 VHDM\HSD Daughtercard. 74886 VHDM\HSD Hybrid Daughtercard

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 |            |

|                         |                  |
|-------------------------|------------------|
| Data Rate               | 5.0 Gbps         |
| Real Signals (per 25mm) | 48               |
| Voltage - Maximum       | 120V AC (RMS)/DC |

**Material Info**

**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-74031-999 |
| Sales Drawing         | SD-74979-010 |

VHDM-HSD is a trademark of Amphenol Corporation

This document was generated on 05/28/2010

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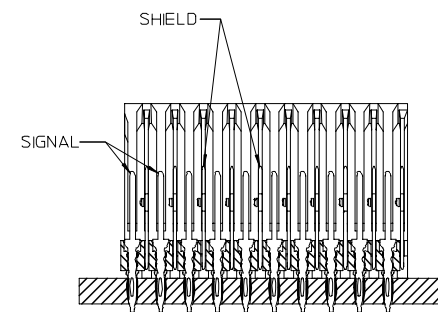
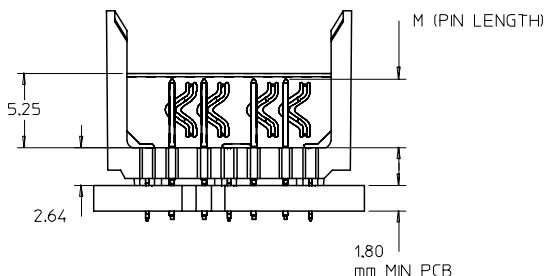
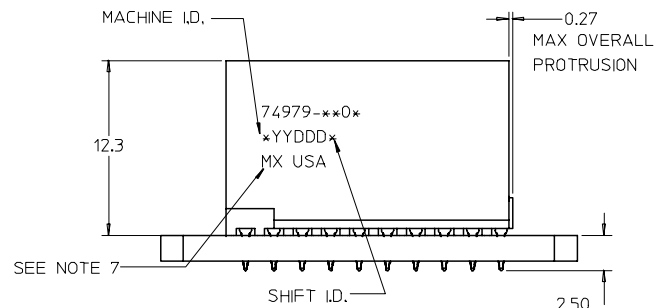
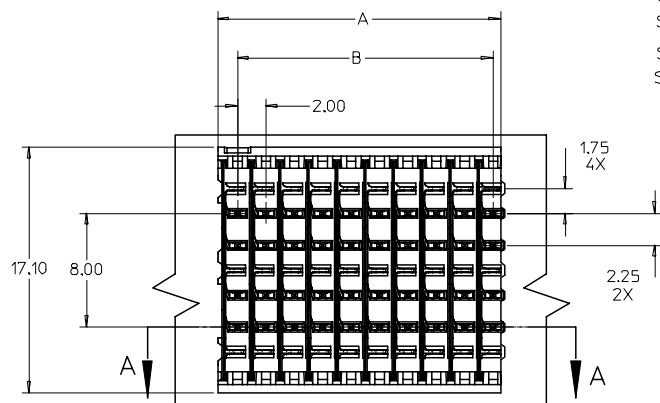
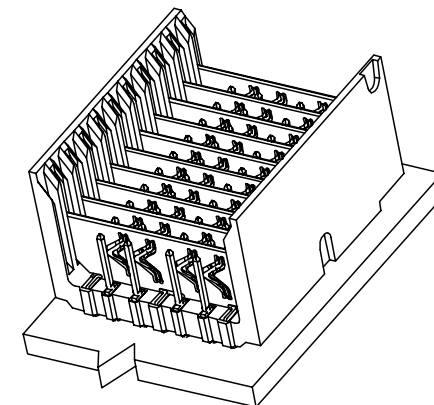
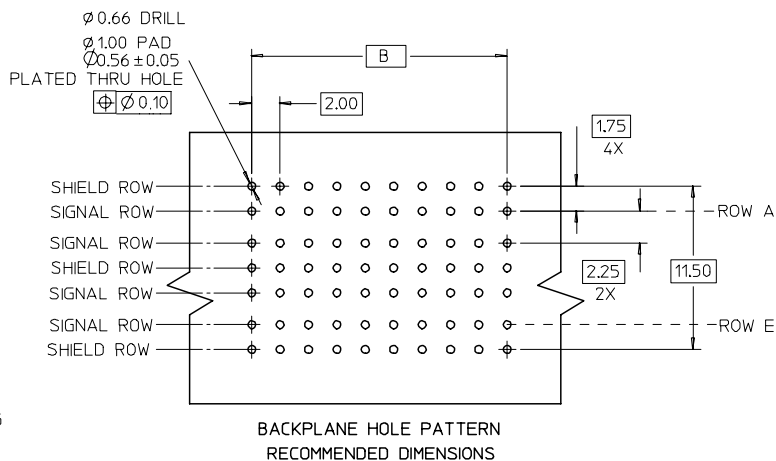
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SECTION A-A  
ROTATED 180°

# NOTES:

1. MATERIAL: HOUSING - LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED, UL 94V-0. COLOR - BLACK. SIGNAL AND SHIELD - HIGH PERFORMANCE 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 MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74057-003 FOR 10 & 25 COLUMN.  
PACKAGE PER PK-70873-0934 FOR THE 9 COLUMN CONNECTOR.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON TUBE.

|                                                                                                                    |  |                    |                                            |                                                                                                                               |       |                            |                        |                                              |                                                         |  |
|--------------------------------------------------------------------------------------------------------------------|--|--------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|------------------------|----------------------------------------------|---------------------------------------------------------|--|
| ADD LEADFREE PINS<br>EC NO: UCP2006-0067<br>DRWN: KMULVEY 2005/07/15<br>CHKD: 2005/07/18<br>APPR: SREED 2005/08/11 |  | DESCRIPTION<br>REV | QUALITY SYMBOLS<br><br>▽ = 0<br><br>▽C = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                         |       | SCALE<br>4:1               | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION<br>REVISE ON CAD ONLY | TITLE<br>HSD SALES ASSEMBLY<br>6 ROW OPEN END BACKPLANE |  |
| mm                                                                                                                 |  |                    |                                            | INCH                                                                                                                          |       | DIMENSION STYLE<br>MM ONLY |                        |                                              |                                                         |  |
|                                                                                                                    |  |                    |                                            | 4 PLACES                                                                                                                      | ± --- | ± ---                      | DRAWN BY<br>NMARTIN    | DATE<br>2002/05/03                           | MOLEX INCORPORATED                                      |  |
|                                                                                                                    |  |                    |                                            | 3 PLACES                                                                                                                      | ± --- | ± ---                      |                        |                                              |                                                         |  |
|                                                                                                                    |  |                    |                                            | 2 PLACES                                                                                                                      | ± --- | ± ---                      | APPROVED BY<br>CBIXLER | DATE<br>2002/05/03                           |                                                         |  |
|                                                                                                                    |  |                    |                                            | 1 PLACE                                                                                                                       | ± --- | ± ---                      |                        |                                              |                                                         |  |
|                                                                                                                    |  |                    |                                            | ANGULAR ± ---°                                                                                                                |       | SHEET NO.<br>1 OF 2        |                        |                                              |                                                         |  |
| DRAFT WHERE APPLICABLE<br><br>MUST REMAIN WITHIN DIMENSIONS                                                        |  |                    |                                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                            |                        |                                              |                                                         |  |

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DAUGHTERCARD  
CONNECTOR SIDE

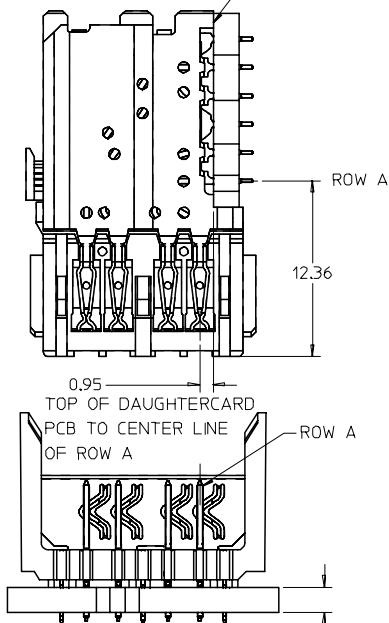
Cutaway2

BACKPLANE  
SIGNAL PIN

BACKPLANE  
SHIELD

0.41 SIGNAL TO  
SIGNAL OFFSET

Cutaway1



1.80  
MIN PCB  
THICKNESS

| PART<br>NUMBER | COLUMN | NUMBER OF<br>SIGNAL PINS | NUMBER OF<br>SHIELDS | A     | B     | M    | Au (um) MIN<br>THICKNESS | Sn (um)<br>THICKNESS |
|----------------|--------|--------------------------|----------------------|-------|-------|------|--------------------------|----------------------|
| 74979-x901     | 9      | 36                       | 9                    | 18.00 | 16.00 | 4.75 | 0.76                     | 0.76-152             |
| 74979-x906     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x001     | 10     | 40                       | 10                   | 20.00 | 18.00 |      | 0.76                     |                      |
| 74979-x006     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x501     | 25     | 100                      | 25                   | 50.00 | 48.00 |      | 0.76                     |                      |
| 74979-x506     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x902     | 9      | 36                       | 9                    | 18.00 | 16.00 | 0.76 |                          |                      |
| 74979-x907     |        |                          |                      |       |       | 1.27 |                          |                      |
| 74979-x002     | 10     | 40                       | 10                   | 20.00 | 18.00 | 6.25 | 0.76                     |                      |
| 74979-x007     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x502     | 25     | 100                      | 25                   | 50.00 | 48.00 |      | 0.76                     |                      |
| 74979-x507     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x903     | 9      | 36                       | 9                    | 18.00 | 16.00 |      | 0.76                     |                      |
| 74979-x908     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x003     | 10     | 40                       | 10                   | 20.00 | 18.00 | 4.25 | 0.76                     |                      |
| 74979-x008     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x503     | 25     | 100                      | 25                   | 50.00 | 48.00 |      | 0.76                     |                      |
| 74979-x508     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x904     | 9      | 36                       | 9                    | 18.00 | 16.00 |      | 0.76                     |                      |
| 74979-x909     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x004     | 10     | 40                       | 10                   | 20.00 | 18.00 | 5.15 | 0.76                     |                      |
| 74979-x009     |        |                          |                      |       |       |      | 1.27                     |                      |
| 74979-x504     | 25     | 100                      | 25                   | 50.00 | 48.00 |      | 0.76                     |                      |
| 74979-x509     |        |                          |                      |       |       |      | 1.27                     |                      |

## MATERIAL NUMBER ASSIGNMENT

74979-\*\* \*\*

SEE TABLE

NUMBER OF COLUMNS/PLATING

10 = 10 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
09 = 9 COLUMN TIN/LEAD  
90 = 10 COLUMN MATTE TIN  
85 = 25 COLUMN MATTE TIN  
99 = 9 COLUMN MATTE TIN

|                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| SEE SHEET 1<br>EC NO: UCP2006-0067<br>DRWN: KMULVEY 2005/07/15<br>CHKD: 2005/07/18<br>APPR: SREED 2005/08/11                     | QUALITY<br>SYMBOLS<br>▽=0<br>▽=0                                                                                                 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                         | SCALE<br>4:1                                                                                                                     | DESIGN UNITS<br>METRIC                                                                                                           | THIRD ANGLE<br>PROJECTION                                                                                                        | REVISE ON CAD ONLY                                                                                                               |
|                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
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| DESCRIPTION<br>REV                                                                                                               | REV                                                                                                                              | DESCRIPTION                                                                                                                      | REV                                                                                                                              | DATE                                                                                                                             | DATE                                                                                                                             | DATE                                                                                                                             |
|                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |
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| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                       |
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