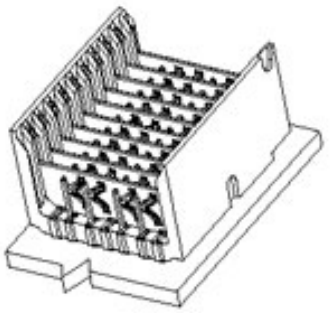
This document was generated on 05/28/2010

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

**Part Number:** 0749799001
**Status:** Active
**Overview:** vhdm__hsd
**Description:** 2.00mm (.079") Pitch 6-Row VHDM-HSD™ Backplane Header, Open Module, 40 Circuits, Gold (Au) Selective 0.76µm (30µ"), Lead-Free, Pin Length 4.75mm (.187)



*Series image - Reference only*

**Documents:**
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-74031-999 (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) | 40 |
| Circuits (maximum) | 40 |
| 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 |
| 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 |

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
**Contains SVHC: No**
**Halogen-Free Status**
**Not Reviewed**

**China RoHS**

**Need more information on product environmental compliance?**

Email 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 Inserter Repair Tool | 0622015700 |
| VHDM-HSD™ Signal Header, 6 Row by 10 Wide, 20.00mm (.787") | 0622020216 |

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

## Material Info

## Reference - Drawing Numbers

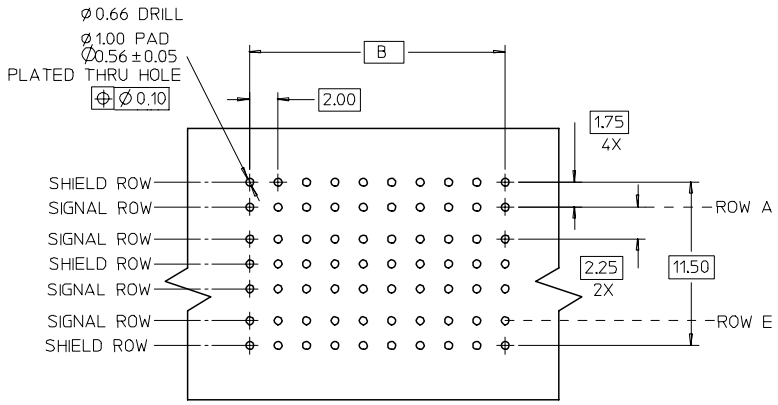
| | |
|---|---|
| Packaging Specification | PK-74057-003 |
| Product Specification | PS-74031-999 |
| Sales Drawing | SD-74979-010 |

VHDM-HSD is a trademark of Amphenol Corporation

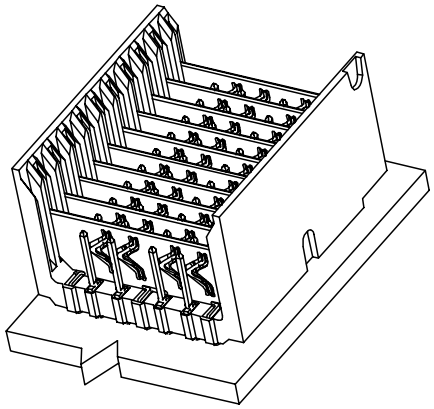
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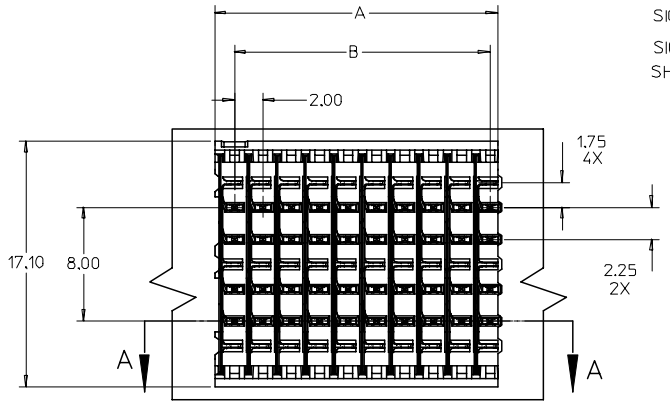
**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

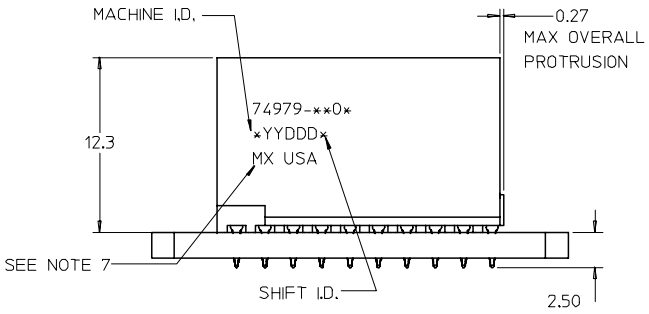
74979

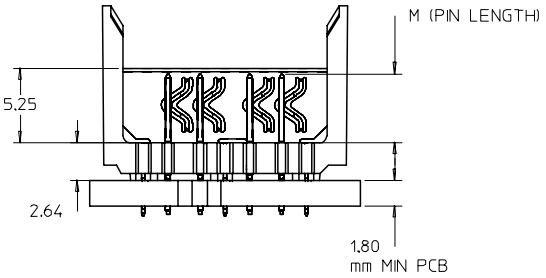


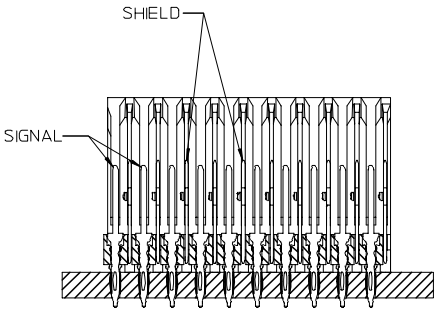

BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSIONS






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 PNs
EC NO: UCP2006-0067 2005/07/15
DRWN: KMULVEY 2005/07/18
CHKD:
APPR: SREED 2005/08/11
DESCRIPTION
REV E

QUALITY SYMBOLS
▼ = 0
▽ = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | |
|---|---|
| SCALE | 4:1 |
| DESIGN UNITS | METRIC |
| DIMENSION STYLE | MM ONLY |
| DRAWN BY | NMARTIN |
| DATE | 2002/05/03 |
| CHECKED BY | SREED |
| DATE | 2002/05/03 |
| APPROVED BY | CBIXLER |
| DATE | 2002/05/03 |

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY

TITLE
HSD SALES ASSEMBLY
6 ROW OPEN END BACKPLANE

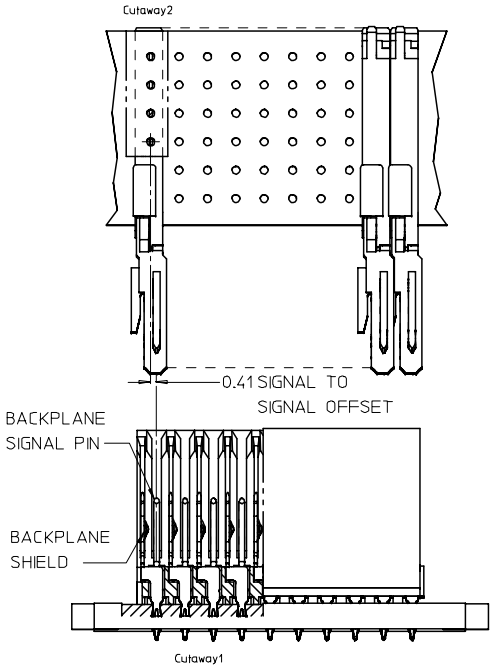
molex MOLEX INCORPORATED

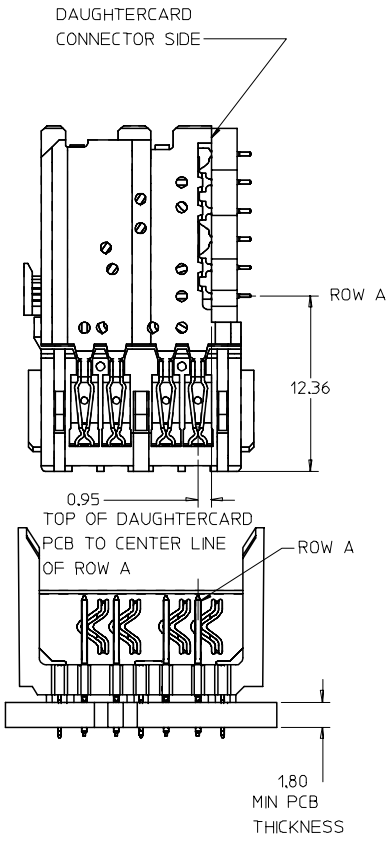
| MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
|---|---|---|
| SEE SHEET 2 | SD-74979-010 | 1 OF 2 |

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

C

tb_frame_C-B1
rev. B1 2000/08/01




| PART NUMBER | COLUMN | NUMBER OF SIGNAL PINS | NUMBER OF SHIELDS | A | B | M | Au (um) MIN THICKNESS | Sn (um) THICKNESS |
|---|---|---|---|---|---|---|---|---|
| 74979-*901 | 9 | 36 | 9 | 18.00 | 16.00 | 4.75 | 0.76 | 0.76-1.52 |
| 74979-*906 | | | | | | | 1.27 | |
| 74979-*001 | 10 | 40 | 10 | 20.00 | 18.00 | | 0.76 | |
| 74979-*006 | | | | | | | 1.27 | |
| 74979-*501 | 25 | 100 | 25 | 50.00 | 48.00 | | 0.76 | |
| 74979-*506 | | | | | | | 1.27 | |
| 74979-*902 | 9 | 36 | 9 | 18.00 | 16.00 | 6.25 | 0.76 | |
| 74979-*907 | | | | | | | 1.27 | |
| 74979-*002 | 10 | 40 | 10 | 20.00 | 18.00 | | 0.76 | |
| 74979-*007 | | | | | | | 1.27 | |
| 74979-*502 | 25 | 100 | 25 | 50.00 | 48.00 | | 0.76 | |
| 74979-*507 | | | | | | | 1.27 | |
| 74979-*903 | 9 | 36 | 9 | 18.00 | 16.00 | 4.25 | 0.76 | |
| 74979-*908 | | | | | | | 1.27 | |
| 74979-*003 | 10 | 40 | 10 | 20.00 | 18.00 | | 0.76 | |
| 74979-*008 | | | | | | | 1.27 | |
| 74979-*503 | 25 | 100 | 25 | 50.00 | 48.00 | | 0.76 | |
| 74979-*508 | | | | | | | 1.27 | |
| 74979-*904 | 9 | 36 | 9 | 18.00 | 16.00 | 5.15 | 0.76 | |
| 74979-*909 | | | | | | | 1.27 | |
| 74979-*004 | 10 | 40 | 10 | 20.00 | 18.00 | | 0.76 | |
| 74979-*009 | | | | | | | 1.27 | |
| 74979-*504 | 25 | 100 | 25 | 50.00 | 48.00 | | 0.76 | |
| 74979-*509 | | | | | | | 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
EC NO: UCP2006-0067 2005/07/15
DRWN:KMULVEY 2005/07/18
CHKD:
APPR: SREED 2005/08/11
DESCRIPTION
REV E

QUALITY SYMBOLS
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GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
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| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±---° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 4:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY
DIMENSION STYLE MM ONLY
DRAWN BY NMARTIN DATE 2002/05/03
CHECKED BY SREED DATE 2002/05/03
APPROVED BY CBIXLER DATE 2002/05/03

TITLE: HSD SALES ASSEMBLY 6 ROW OPEN END BACKPLANE

MOLEX INCORPORATED

MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-74979-010 | SHEET NO. 2 OF 2

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