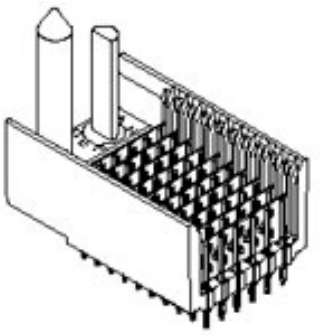
This document was generated on 05/27/2010

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

**Part Number:** 0761368501
**Status:** Active
**Overview:** vhdm_h
**Description:** 2.00mm (.079") Pitch VHDM® H Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin, Shield End Module, Open End Version, 80 Circuits, Pin Length 4.75mm (.187"), Lead Free



*Series image - Reference only*

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

## General

| | |
|---|---|
| Product Family | Backplane Connectors |
| Series | 74061 |
| Application | Backplane |
| Comments | No Keying Position |
| Component Type | PCB Header |
| Overview | vhdm_h |
| Product Name | VHDM® - H Series |
| Style | N/A |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 200 |
| Circuits (maximum) | 200 |
| 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 | Copper Alloy |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Number of Columns | 25 |
| Number of Pairs | Open Pin Field |
| Number of Rows | 8 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.072 In |
| PC Tail Length (mm) | 1.83 mm |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.072 In |
| PCB Thickness Recommended (mm) | 1.83 mm |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.079 In |
| Pitch - Mating Interface (mm) | 2.00 mm |
| Pitch - Term. Interface (in) | 0.089 In |
| Pitch - Term. Interface (mm) | 2.25 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 | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -55°C to +85°C |

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
Not Reviewed
**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**
74061Series

**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® 8 Row Pin and Shield Repair Tool | 0622015900 |
| VHDM® 8 Row Shield Extraction Tool | 0622016100 |
| VHDM® Insertion Module for Standard Shield Signal Header, 8 Row by | 0622020210 |

| | | |
|---|---|---|
| Termination Interface: Style | Through Hole - Compliant Pin | 25 Wide, 50.00mm (1.97") |

## Electrical

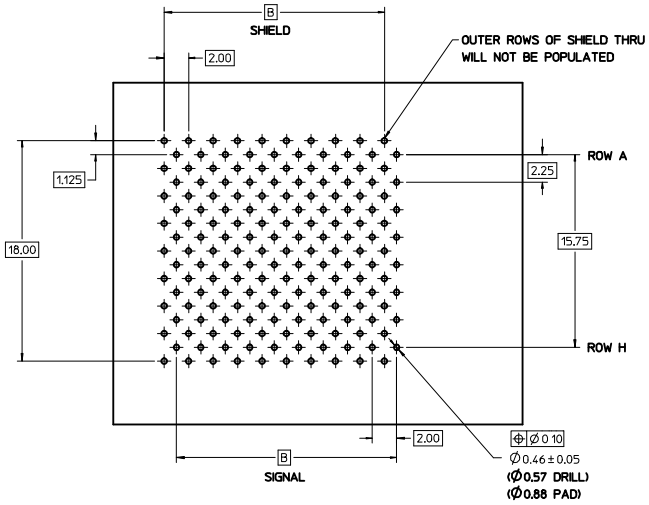
| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Data Rate | 6.25 Gbps |
| Real Signals (per 25mm) | 75 |
| Shield Type | Ground Plane Shield |
| Shielded | Yes |
| Voltage - Maximum | 120V AC (RMS)/DC |

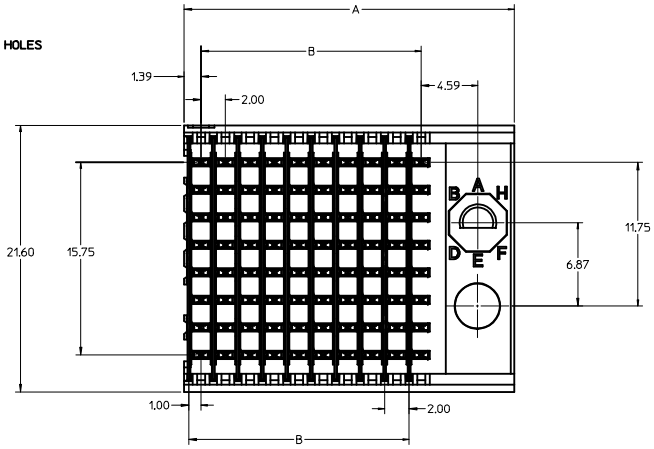
## Material Info

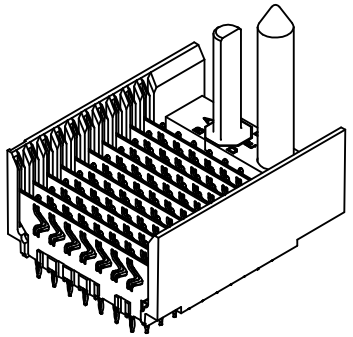
## Reference - Drawing Numbers

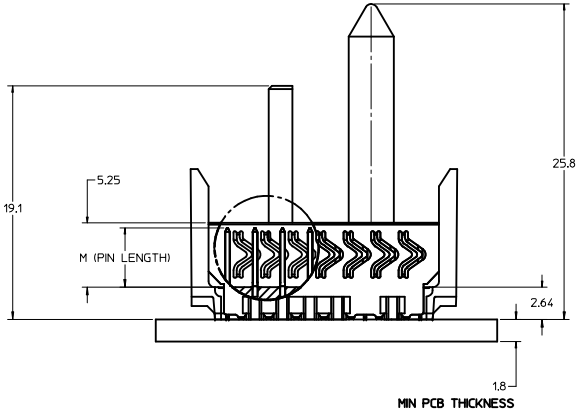
| | |
|---|---|
| Packaging Specification | PK-74061-003 |
| Product Specification | PS-74031-999 |
| Sales Drawing | SD-76136-001 |

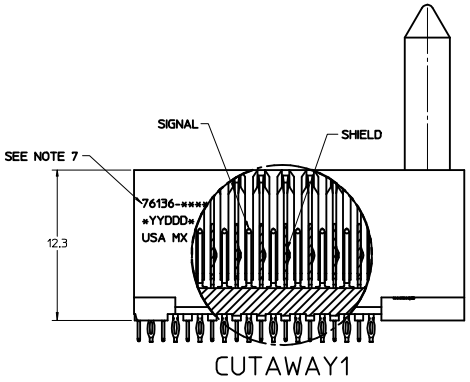
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CUTAWAY1

NOTES:
1. MATERIALS:
HOUSING - LIQUID CRYSTAL POLYMER (LCP)
GLASS FILLED, UL94V-0, BLACK
SIGNAL PIN AND SHIELD - COPPER ALLOY
2. FINISHES:
CONTACT AREA - SELECTIVE GOLD (Au)
PCB TAILS - SELECTIVE TIN/LEAD (SnPb) OR MATTE TIN (Sn)
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION
PS-74031-999.
4. FOR MIXED CONTACT LENGTH CONTACT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC MATERIAL NUMBERS AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74061-003.
7. ASSEMBLY WILL BE MARKED WITH P/N AND DATE CODE WITH LASER MARK ON SIDE OF HOUSING OR BY LABEL ON THE TUBE.

| REV | DESCRIPTION | DRWN | CHKD | APPR | DATE |
|---|---|---|---|---|---|
| 1 | INITIAL RELEASE EC NO: UCP2008-27748 | J JONIAK | J JONIAK | J LAURX | 2008/12/01 2008/12/02 2008/12/03 |

QUALITY SYMBOLS: ▼=0, ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.15 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

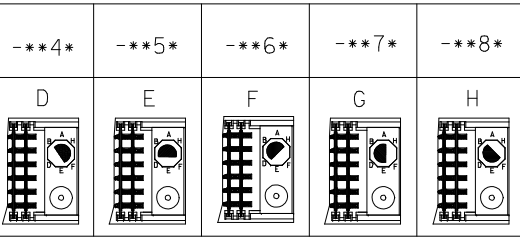
DIMENSION STYLE: MM ONLY
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: J JONIAK 2008/04/11
CHECKED BY: B INGHAM 2008/04/11
APPROVED BY: B INGHAM 2008/04/11
MATERIAL NO.: SEE PAGE 2

TITLE: VHDM H-SERIES 8 ROW SHIELD END BACKPLANE SALES DRAWING
MOLEX INCORPORATED
DOCUMENT NO.: SD-76136-001
SHEET NO.: 1 OF 2
SIZE: D

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

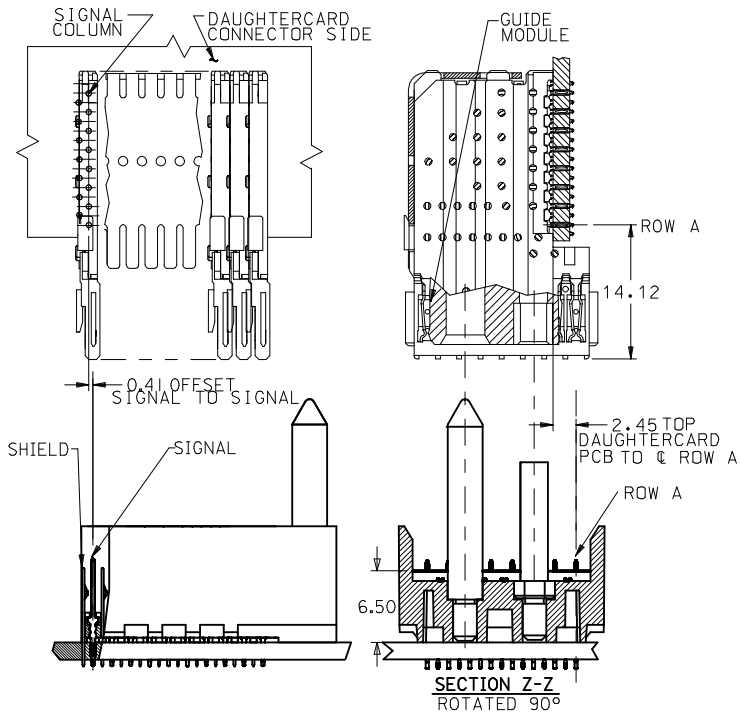
| M/N 76136-( ) | -**0* | -**1* | -**2* | -**3* | -**4* | -**5* | -**6* | -**7* | -**8* |
|---|---|---|---|---|---|---|---|---|---|
| KEYING PIN ORIENTATION | 0 | A | B | C | D | E | F | G | H |



76136 - * * * *

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 LENGTH)
1 & 6 = 4.75
2 & 7 = 6.25
3 & 8 = 4.25
4 & 9 = 5.15




| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A | B | M | Au (um) THICKNESS | Sn (um) THICKNESS |
|---|---|---|---|---|---|---|---|---|
| 76136-*0*1 | 10 | 80 | 10 | 27.00 | 18.00 | 4.75 | 0.76 | 0.76-1.52 |
| 76136-*0*6 | | | | | | | 1.27 | |
| 76136-*5*1 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 76136-*5*6 | | | | | | | 1.27 | |
| 76136-*0*2 | 10 | 80 | 10 | 27.00 | 18.00 | 6.25 | 0.76 | |
| 76136-*0*7 | | | | | | | 1.27 | |
| 76136-*5*2 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 76136-*5*7 | | | | | | | 1.27 | |
| 76136-*0*3 | 10 | 80 | 10 | 27.00 | 18.00 | 4.25 | 0.76 | |
| 76136-*0*8 | | | | | | | 1.27 | |
| 76136-*5*3 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 76136-*5*8 | | | | | | | 1.27 | |
| 76136-*0*4 | 10 | 80 | 10 | 27.00 | 18.00 | 5.15 | 0.76 | |
| 76136-*0*9 | | | | | | | 1.27 | |
| 76136-*5*4 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 76136-*5*9 | | | | | | | 1.27 | |

INITIAL RELEASE
EC NO: UCP2008-2748 2008/12/01
DRWN: JJONIAK 2008/12/02
CH'KD: JJONIAK 2008/12/03
APPR: JLAURX
DESCRIPTION
1
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.15 | ± --- |
| 1 PLACE | ± 0.25 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JJONIAK DATE: 2008/04/11
CHECKED BY: BINGHAM DATE: 2008/04/11
APPROVED BY: BINGHAM DATE: 2008/04/11

TITLE: VHDM H-SERIES 8 ROW SHIELD END BACKPLANE SALES DRAWING

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-76136-001
SHEET NO.: 2 OF 2

SIZE: C

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