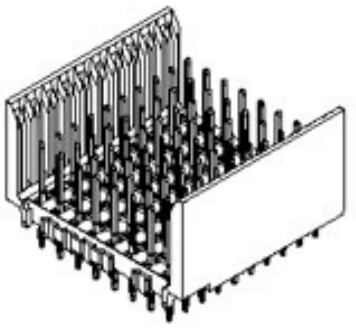
This document was generated on 05/28/2010

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

**Part Number:** 0751971001
**Status:** Active
**Overview:** vhdm__hsd
**Description:** 2.00mm (.079") Pitch VHDM® Lite Board-to-Board Backplane Header, Vertical, 8-Row, Open Signal Module, 80 circuits, 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 | 75197 |
| 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 Lite® |
| Style | N/A |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 80 |
| Circuits (maximum) | 80 |
| 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 | High Performance Alloy (HPA) |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin-Lead |
| Material - Resin | High Temperature Thermoplastic |
| Number of Columns | 10 |
| Number of Pairs | Open Pin Field |
| Number of Rows | 8 |
| Orientation | Vertical |
| PCB Retention | Yes |
| 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**
RoHS Compliant by Exemption
**REACH SVHC**
Contains SVHC: No
**Halogen-Free Status**
Not Reviewed

**China RoHS**
50
Pb

**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**
75197Series

**Mates With**
75191 VHDM® Lite-Series 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, 8 Row by | 0622020209 |

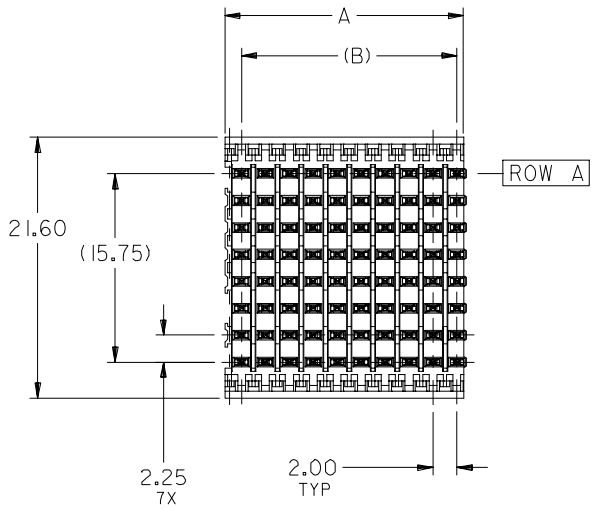
| | | |
|---|---|---|
| Data Rate | 622.0 Mbps | 10 Wide, 20.00mm (.787") |
| Real Signals (per 25mm) | 72 | |
| Voltage - Maximum | 120V AC (RMS)/DC | |

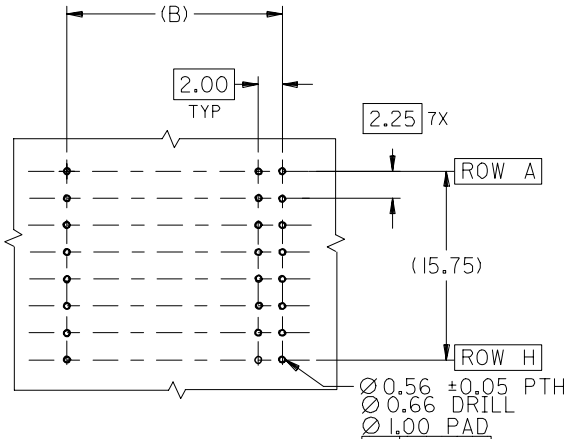
## Material Info

## Reference - Drawing Numbers

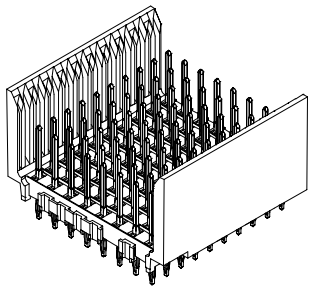
| | |
|---|---|
| Packaging Specification | PK-74060-003 |
| Product Specification | PS-74031-999 |
| Sales Drawing | SD-75197-001 |

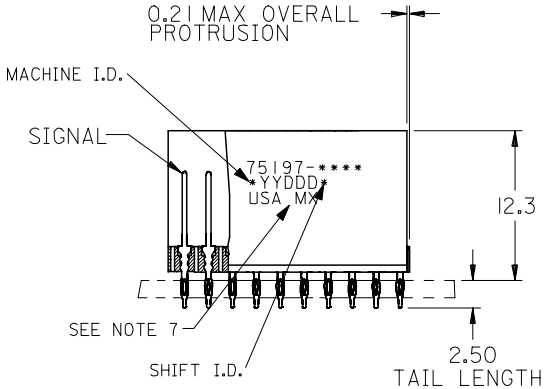
VHDM and Very High Density Metric are trademarks of Amphenol Corporation

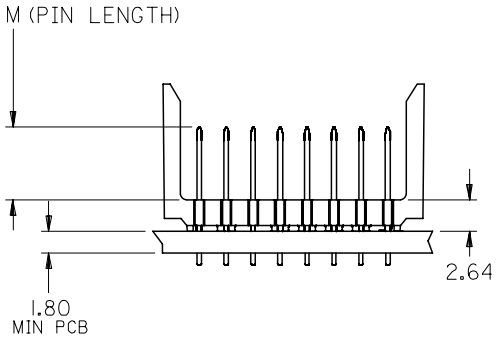



BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION






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-74060-003
7. EITHER MARK PART WITH PART NUMBER & DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.

ADD LEADFREE PNs
EC NO: UCP2006-0059 2005/07/13
DRWN:KMULVEY 2005/07/13
CH'KD: 2005/07/15
APPR:SREED
DESCRIPTION
REV E

QUALITY SYMBOLS
▼=0
▽=0

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

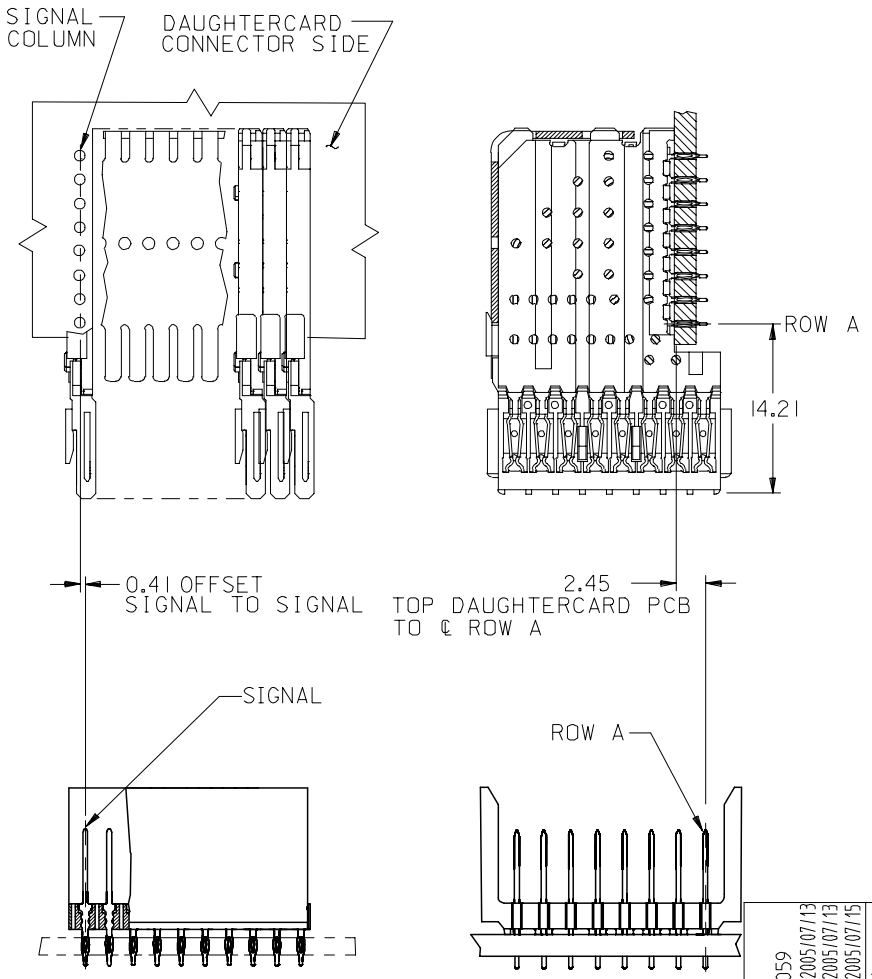
| | | DATE |
|---|---|---|
| DRAWN BY | MBANDURA | 2002/10/07 |
| CHECKED BY | NMARTIN | 2002/10/07 |
| APPROVED BY | CBIXLER | 2002/10/07 |

TITLE: VHDM LITE 8 ROW OPEN END BACKPLANE SALES ASSEMBLY

MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-75197-001
SHEET NO.: 1 OF 2
SIZE: B

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




| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A | B | M | Au (um) THICKNESS | Sn (um) THICKNESS |
|---|---|---|---|---|---|---|---|---|
| 75197-*001 | 10 | 80 | 0 | 20.00 | 18.00 | 4.75 | 0.76 | 0.76-1.52 |
| | | | | | | | --- | |
| 75197-*501 | 25 | 200 | 0 | 50.00 | 48.00 | | 0.76 | |
| | | | | | | | --- | |
| 75197-*002 | 10 | 80 | 0 | 20.00 | 18.00 | 6.25 | 0.76 | |
| | | | | | | | --- | |
| 75197-*502 | 25 | 200 | 0 | 50.00 | 48.00 | | 0.76 | |
| | | | | | | | --- | |
| 75197-*003 | 10 | 80 | 0 | 20.00 | 18.00 | 4.25 | 0.76 | |
| | | | | | | | --- | |
| 75197-*503 | 25 | 200 | 0 | 50.00 | 48.00 | | 0.76 | |
| | | | | | | | --- | |
| 75197-*004 | 10 | 80 | 0 | 20.00 | 18.00 | 5.15 | 0.76 | |
| | | | | | | | --- | |
| 75197-*504 | 25 | 200 | 0 | 50.00 | 48.00 | | 0.76 | |
| | | | | | | | --- | |

## MATERIAL NUMBER ASSIGNMENT

75197- ** **

- ** — SEE TABLE
- NUMBER OF COLUMNS/PLATING
  - 10 = 10 COLUMN TIN/LEAD
  - 25 = 25 COLUMN TIN/LEAD
  - 90 = 10 COLUMN MATTE TIN
  - 85 = 25 COLUMN MATTE TIN

SEE SHEET 1
EC NO: UCP2006-0059 2005/07/13
DRWN:KMULVEY 2005/07/13
CH'KD: 2005/07/15
APPR:SREED
DESCRIPTION
REV E

QUALITY SYMBOLS
▼=0
▽=0

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

| | | DATE |
|---|---|---|
| DRAWN BY | MBANDURA | 2002/10/07 |
| CHECKED BY | NMARTIN | 2002/10/07 |
| APPROVED BY | CBIXLER | 2002/10/07 |

TITLE: VHDM LITE 8 ROW OPEN END BACKPLANE SALES ASSEMBLY

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-75197-001
SHEET NO.: 2 OF 2
SIZE: B

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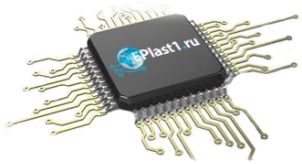
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.