

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

**Part Number:** **0740298400**  
**Status:** **Active**  
**Overview:** vhdm  
**Description:** 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Receptacle Power Module, Vertical, 8-Row, 2 Circuits, Pin 2 Voided, Gold (Au) Selective 0.76µm (30µ")

**Documents:**

[3D Model](#) [Product Specification PS-74031-999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Packaging Specification \(PDF\)](#)

**Agency Certification**

UL E29179

**General**

Product Family Backplane Connectors  
 Series [74029](#)  
 Application Backplane  
 Application Tooling Documents [Tooling Manual](http://www.molex.com/pdm_docs/ats/TM-622010999.pdf)  
 Comments Backplane Receptacle Module, Power  
 Component Type Power Receptacle  
 Overview [vhdm](#)  
 Product Name VHDM®  
 Style N/A

**Physical**

Circuits (Loaded) 2  
 Circuits (maximum) 3  
 Circuits Detail Pin 2 voided  
 Color - Resin Black  
 Durability (mating cycles max) 200  
 First Mate / Last Break No  
 Flammability 94V-0  
 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 N/A  
 Number of Pairs Open Pin Field  
 Number of Rows 8  
 Orientation Vertical  
 PC Tail Length (in) 0.110 In  
 PC Tail Length (mm) 2.80 mm  
 PCB Locator No  
 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  
 Pitch - Term. Interface (in) 0.157 In  
 Pitch - Term. Interface (mm) 4.00 mm  
 Plating min: Mating (µin) 30

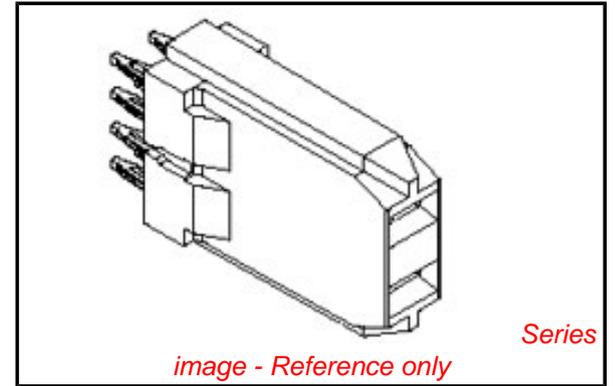


image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**Halogen-Free**

**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**

[74029Series](#)

**Mates With**

[74026 VHDM® Board-to-Board Daughtercard Receptacle](#)

**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® Backplane 6 and 8 Row Power Module Insertion Tool | <a href="#">0622020211</a> |

|   |                              |
|---|------------------------------|
| Plating min: Mating ( $\mu\text{m}$ )       | 0.75                         |
| Plating min: Termination ( $\mu\text{in}$ ) | 15                           |
| Plating min: Termination ( $\mu\text{m}$ )  | 0.375                        |
| Polarized to PCB                            | Yes                          |
| Stackable                                   | No                           |
| 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 | 10A      |
| Data Rate                     | 2.5 Gbps |
| Real Signals (per 25mm)       | 100      |
| Shielded                      | No       |
| Voltage - Maximum             | 250V     |

### **Material Info**

#### **Reference - Drawing Numbers**

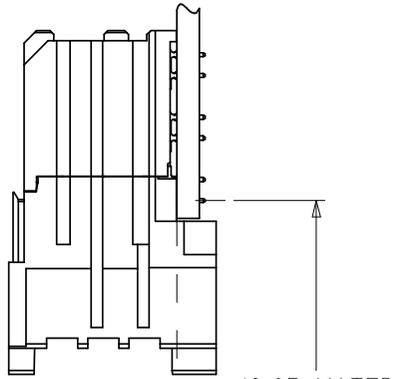
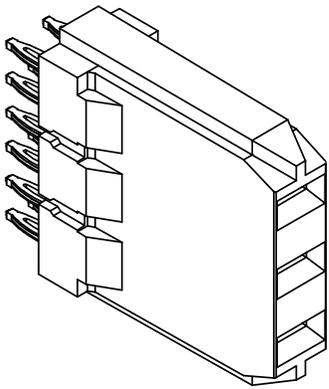
|                         |                            |
|-------------------------|----------------------------|
| Packaging Specification | PK-70873-0876              |
| Product Specification   | PS-74031-999               |
| Sales Drawing           | SD-74029-002, SD-74029-009 |

VHDM and Very High Density Metric are trademarks of Amphenol Corporation

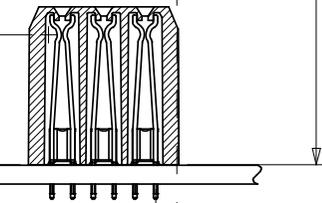
This document was generated on 05/19/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

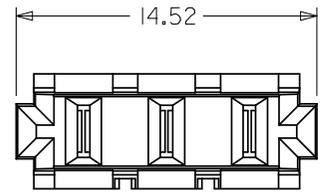
10 9 8 7 6 5 4 3 2



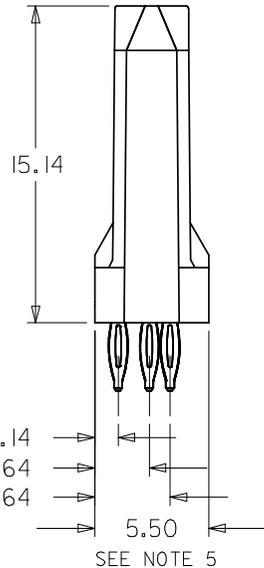
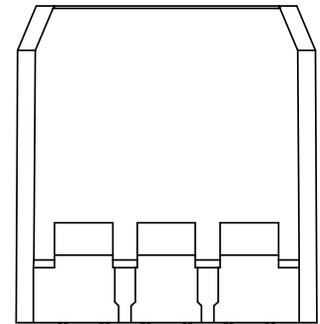
16.85 MATED



12.44 MAX.  
NOTE 6  
REF.



14.52



15.14

1.14  
2.64  
3.64

5.50  
SEE NOTE 5

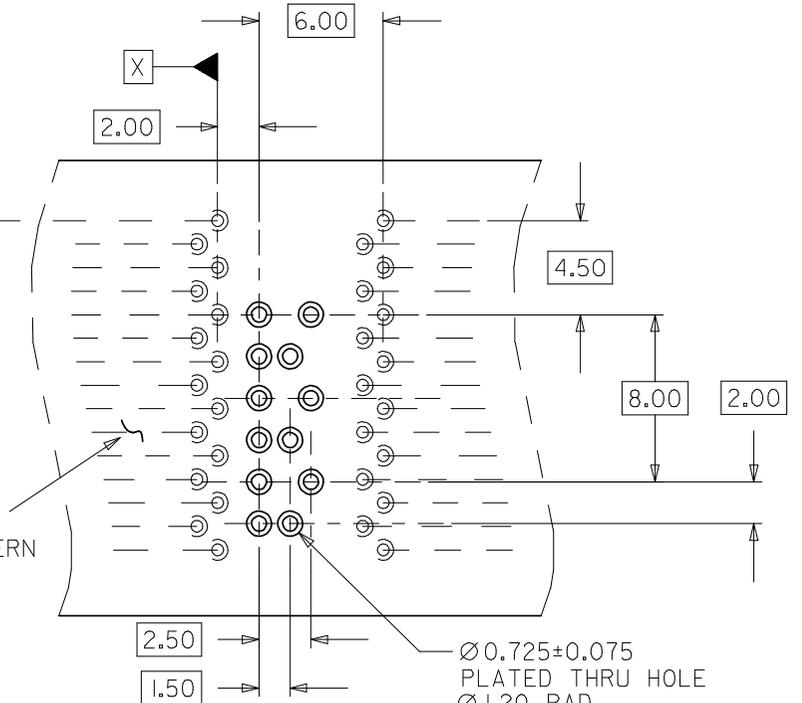
NOTES:

1. MATERIALS:  
HOUSING - LIQUID CRYSTAL POLYMER (LCP)  
UL94 V-0 RATED, COLOR: BLACK  
TERMINAL - COPPER ALLOY
2. FINISH: 30 MICROINCH MIN GOLD ON MATING SURFACE;  
TIN/LEAD ON TAILS; NICKEL OVERALL.
3. FINISH: 50 MICROINCH MIN GOLD ON MATING SURFACE;  
TIN/LEAD ON TAILS; NICKEL OVERALL.
4. THIS PART CONFORMS TO PRODUCT SPECIFICATION  
PS-74031-999.
5. USE 6.00 mm NOMINAL FOR BACKPLANE LAYOUT.
6. DIMENSION MEASURED FROM BOTTOM OF HOUSING.
7. PACKED PER PK-70873-0876.
8. CONTACT NOT PRESENT AT POSITION ON  
-84\*\* ASSEMBLIES.

SIGNAL  
ROW A

Y

REFERENCE  
SIGNAL PATTERN



⊕ Ø 0.15 X Y

| ASSEMBLY # | CONTACT PLATING | OPEN LOC. | # CONTACTS |
|------------|-----------------|-----------|------------|
| 74029-8000 | SEE NOTE 2      | N/A       | 3          |
| 74029-8050 | SEE NOTE 3      | N/A       |            |
| 74029-8400 | SEE NOTE 2      | POS. 2    | 2          |
| 74029-8450 | SEE NOTE 3      | POS. 2    |            |
| 74029-8401 | SEE NOTE 2      | POS. 1    |            |
| 74029-8451 | SEE NOTE 3      | POS. 1    |            |
| 74029-8403 | SEE NOTE 2      | POS. 3    |            |
| 74029-8453 | SEE NOTE 3      | POS. 3    |            |

REDRAWN  
EC NO: UCP2008-1963  
DRWN: BINGHAM 2008/02/18  
CHKD: BINGHAM 2008/02/18  
APPR: LAURX 2008/02/18

QUALITY  
SYMBOLS  
▽=0  
▽=0

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

DIMENSION STYLE  
MM ONLY

SCALE  
NONE

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

DRAWN BY  
TELO

DATE  
98/10/19

CHECKED BY  
DBREARLEY

DATE  
98/10/21

APPROVED BY  
CBIXLER

DATE  
98/10/22

MATERIAL NO.  
SEE CHART

SIZE  
B

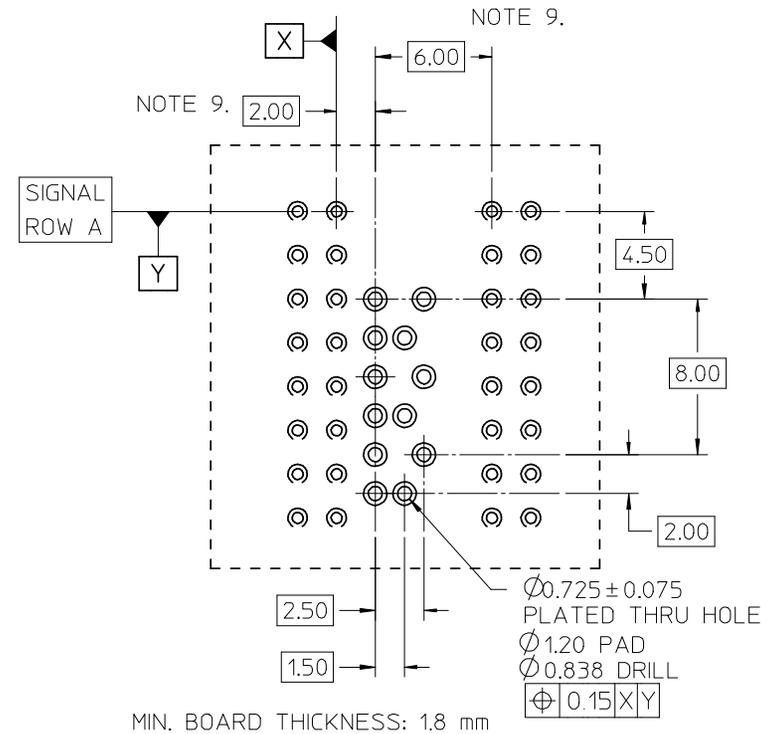
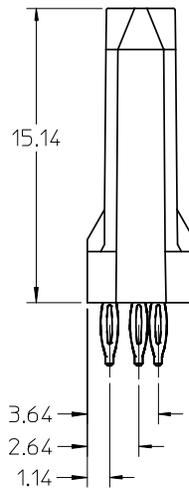
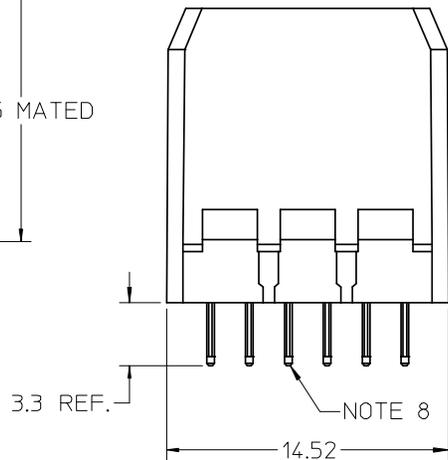
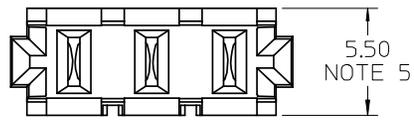
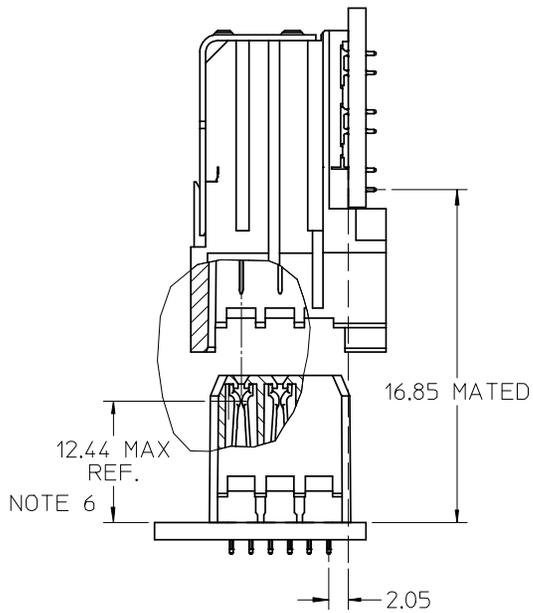
TITLE  
VHDM POWER  
8 ROW BACKPLANE  
SALES ASSEMBLY

MOLEX INCORPORATED

DOCUMENT NO.  
SD-74029-002

SHEET NO.  
1 OF 1

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



- NOTES:
- MATERIALS:  
HOUSING - LIQUID CRYSTAL POLYMER (LCP)  
UL94 V-0 RATED, COLOR: BLACK  
TERMINAL - COPPER ALLOY
  - FINISH: 30 microINCH MIN GOLD ON MATING SURFACE;  
TIN/LEAD ON TAILS; NICKEL OVERALL.
  - FINISH: 50 microINCH MIN GOLD ON MATING SURFACE;  
TIN/LEAD ON TAILS; NICKEL OVERALL.
  - THIS PART CONFORMS TO PRODUCT SPECIFICATION  
PS-74031-999.
  - USE 6.00 mm NOMINAL FOR BACKPLANE LAYOUT.
  - DIMENSION MEASURED FROM BOTTOM OF HOUSING.
  - PACKED PER PK-70873-0876.
  - MIDDLE CONTACT NOT PRESENT ON -84\*\* ASSEMBLIES.
  - THIS DIMENSION TO BE MULTIPLE OF 2.00 mm AS REQUIRED.

| ASSEMBLY # | CONTACT PLATING | # CONTACTS |
|------------|-----------------|------------|
| 74029-8000 | SEE NOTE 2      | 3          |
| 74029-8050 | SEE NOTE 3      | 3          |
| 74029-8400 | SEE NOTE 2      | 2          |
| 74029-8450 | SEE NOTE 3      | 2          |

|  |   |  |  |   |                        |   |  |
|--|---|--|--|---|------------------------|---|--|
| REVISED (MINOR)<br>EC NO: UCP2008-1963<br>DRWN: JINGHAM 2008/02/18<br>CHKD: 2008/02/18<br>APPR: LAURX 2008/02/18 | QUALITY SYMBOLS   | GENERAL TOLERANCES (UNLESS SPECIFIED)  | SCALE 4:1  | DESIGN UNITS METRIC   | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY  |  |
|  | DESCRIPTION<br>▼ = 0<br>∇ = 0                           | mm   | INCH   | DIMENSION STYLE MM ONLY   |                        | TITLE<br>HSD POWER<br>8 ROW BACKPLANE<br>SALES ASSEMBLY<br>MOLEX INCORPORATED |  |
|  |   | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.15 ± ---<br>1 PLACE ± 0.25 ± ---<br>ANGULAR ± 5 ° | DRAWN BY DATE<br>ELO 2001/10/04<br>CHECKED BY DATE<br>GORSKI 2001/10/05<br>APPROVED BY DATE<br>BIXLER 2001/10/08 |   |                        |   |  |
|  | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. DOCUMENT NO. SHEET NO.<br>SEE CHART SD-74029-009 1 OF 1   |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |   |  |

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9