

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0740298450

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 1.27µm (50µ")

Documents:

3D Model

Drawing (PDF)

Packaging Specification (PDF)

Product Specification PS-74031-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Series

Application

Application Tooling Documents

Comments

Component Type

Overview

Product Name

Style

Backplane Connectors

74029

Backplane

<a href="http://www.molex.com/pdm\_docs/ats/TM-622010999.pdf">Tooling Manual</a>

Backplane Receptacle Module, Power

Power Receptacle

vhdm

VHDM®

N/A

Physical

Circuits (Loaded)

Circuits (maximum)

Circuits Detail

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Guide to Mating Part

Keying to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Columns

Number of Pairs

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Pitch - Term. Interface (in)

Pitch - Term. Interface (mm)

Plating min: Mating (µin)

2

3

Pin 2 voided

Black

200

No

94V-0

No

None

High Performance Alloy (HPA)

Gold

Tin-Lead

High Temperature Thermoplastic

N/A

Open Pin Field

8

Vertical

0.110 In

2.80 mm

No

None

0.070 In

1.80 mm

Tube

0.079 In

2.00 mm

0.157 In

4.00 mm

50

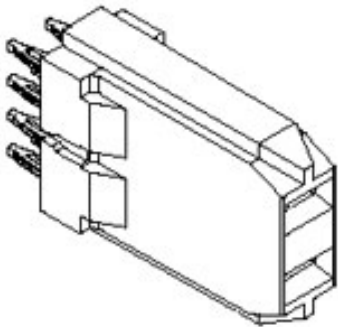


image - Reference only

Series

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS

50

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

0622020211

6 and 8 Row Power Module Insertion Tool

|                                |                              |
|--------------------------------|------------------------------|
| Plating min: Mating (μm)       | 1.25                         |
| Plating min: Termination (μin) | 15                           |
| Plating min: Termination (μm)  | 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 |

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10

9

8

7

6

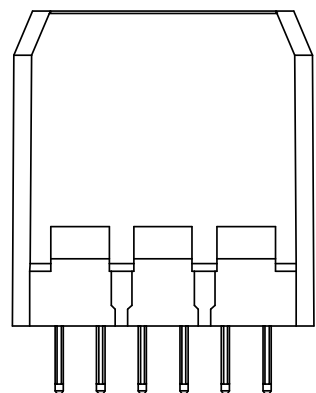
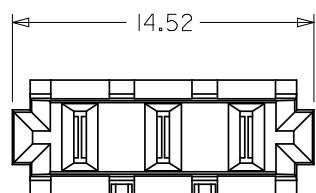
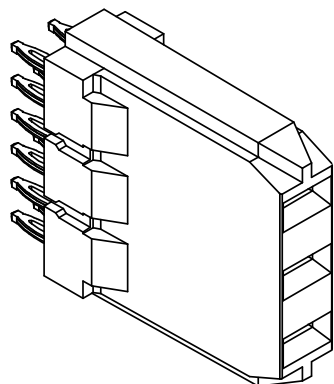
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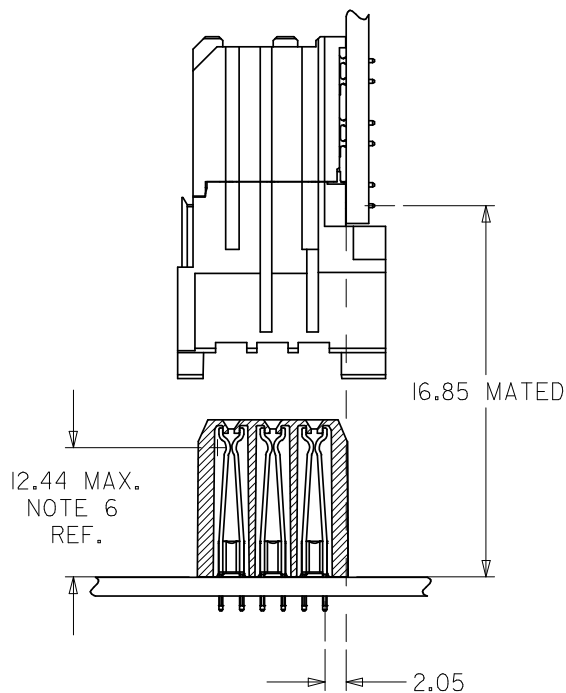
3

2

74029



(POSITION 1)  
(POSITION 2)  
(POSITION 3)  
SEE NOTE 8 & CHART



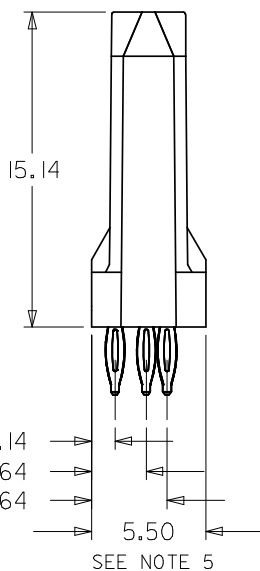
12.44 MAX.  
NOTE 6  
REF.

16.85 MATED

2.05

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.



1.14  
2.64  
3.64

SEE NOTE 5

SIGNAL  
ROW A

Y

REFERENCE  
SIGNAL PATTERN

MIN. BOARD THICKNESS: 1.8 mm

Ø 0.725±0.075  
PLATED THRU HOLE  
Ø 1.20 PAD  
Ø 0.838 DRILL

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:JBINGHAM 2008/02/18  
CHKD:JBINGHAM 2008/02/18  
APPR:JLAURX 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

| DRAWN BY    | DATE     |
|-------------|----------|
| TELO        | 98/10/19 |
| CHECKED BY  | DATE     |
| DBREARLEY   | 98/10/21 |
| APPROVED BY | DATE     |
| CBIXLER     | 98/10/22 |

MATERIAL NO.

SEE CHART

SIZE B

SCALE  
NONE

TITLE

DESIGN UNITS  
METRIC

THIRD ANGLE  
PROJECTION

VHDM POWER  
8 ROW BACKPLANE  
SALES ASSEMBLY

molex

MOLEX INCORPORATED

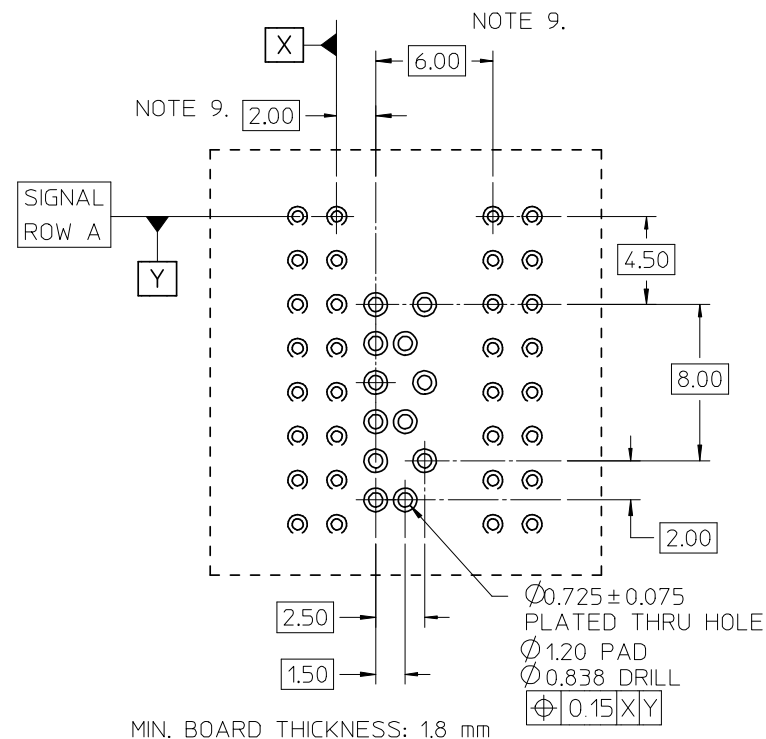
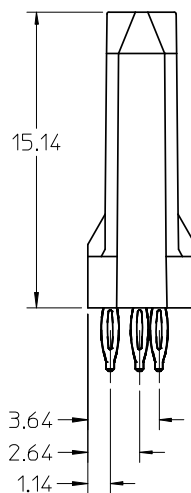
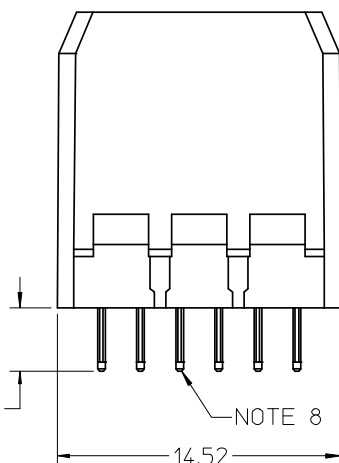
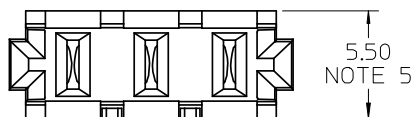
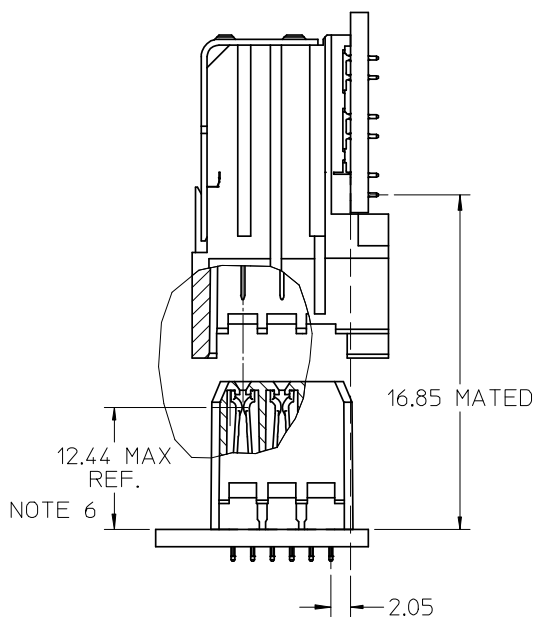
DOCUMENT NO.

SD-74029-002

SHEET NO.

1 OF 1

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INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



- NOTES:
1. MATERIALS:  
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UL94 V-0 RATED, COLOR: BLACK  
TERMINAL - COPPER ALLOY
  2. FINISH: 30 microINCH MIN GOLD ON MATING SURFACE;  
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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. MIDDLE CONTACT NOT PRESENT ON -84\*\* ASSEMBLIES.
  9. 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: JLAURX 2008/02/18<br>A1 | QUALITY SYMBOLS<br><div>▽ = 0</div> <div>▽ = 0</div> | DESCRIPTION                   | GENERAL TOLERANCES (UNLESS SPECIFIED) | mm                                                                                                                            |  | INCH                                                    |  | SCALE<br>4:1             | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION | REVISE ON CAD ONLY |                           |
|                                                                                                                         |                                                      |                               |                                       | DIMENSION STYLE<br>MM ONLY                                                                                                    |  | TITLE<br>HSD POWER<br>8 ROW BACKPLANE<br>SALES ASSEMBLY |  |                          |                        |                           |                    |                           |
|                                                                                                                         |                                                      |                               |                                       | DRAWN BY<br>ELO                                                                                                               |  |                                                         |  |                          |                        | DATE<br>2001/10/04        |                    |                           |
|                                                                                                                         |                                                      |                               |                                       | CHECKED BY<br>GORSKI                                                                                                          |  | DATE<br>2001/10/05                                      |  | MOLEX MOLEX INCORPORATED |                        |                           |                    |                           |
|                                                                                                                         |                                                      |                               |                                       | APPROVED BY<br>BIXLER                                                                                                         |  | DATE<br>2001/10/08                                      |  |                          |                        |                           |                    | MATERIAL NO.<br>SEE CHART |
| DRAFT WHERE APPLICABLE                                                                                                  |                                                      | MUST REMAIN WITHIN DIMENSIONS |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                                         |  |                          |                        |                           |                    | B                         |