

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0740296002](#)
Status: **Active**
Overview: [vhdm](#)
Description: 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Receptacle Power Module, Vertical, 6-Row, 4 Circuits, Dual-Module Assembly, Gold (Au) Selective 0.76µm (30µ")

Documents:

[3D Model](#) [Packaging Specification \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

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) 2
 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 6
 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
 Plating min: Mating (µm) 0.75
 Plating min: Termination (µin) 15

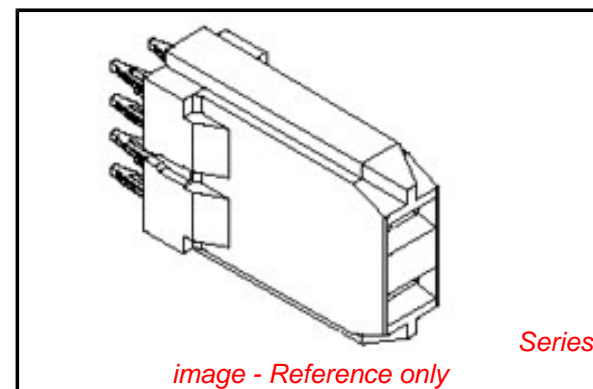


image - Reference only

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
 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	0622020211

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)	72
Shielded	No
Voltage - Maximum	250V

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-545
Sales Drawing	SD-74029-011

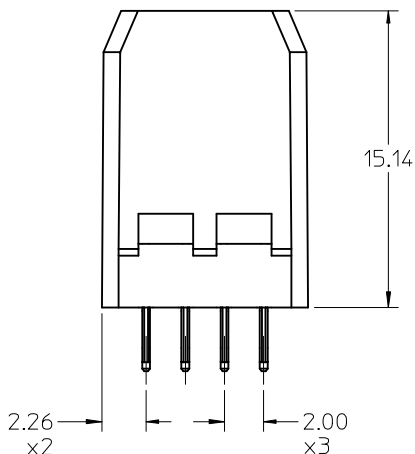
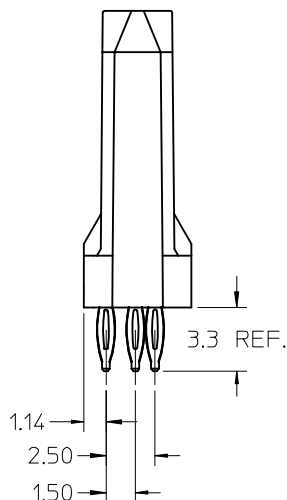
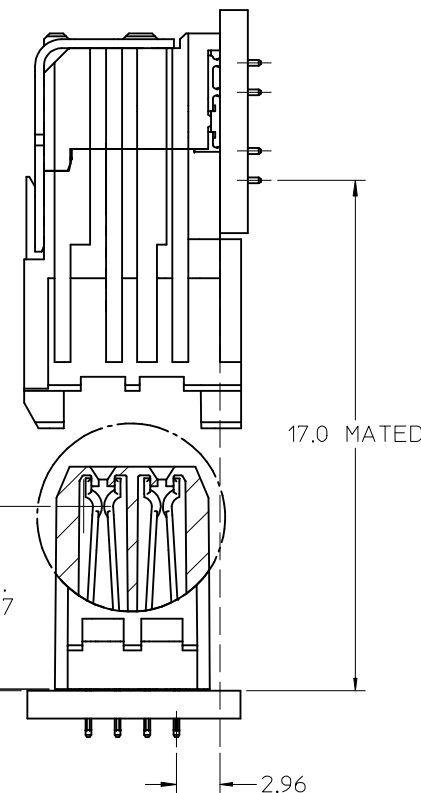
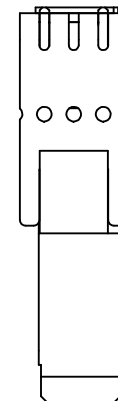
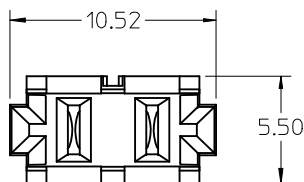
VHDM and Very High Density Metric are trademarks of Amphenol Corporation

This document was generated on 05/19/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

NOTES:

1. MATERIALS:
HOUSING - LIQUID CRYSTAL POLYMER (LCP),
UL94 V-0, COLOR: BLACK.
TERMINAL - COPPER ALLOY
2. FINISH: 30 μ IN MIN. GOLD ON MATING SURFACE;
TIN/LEAD ON TAILS; NICKEL UNDERPLATE.
3. FINISH: 50 μ IN MIN. GOLD ON MATING SURFACE;
TIN/LEAD ON TAILS; NICKEL UNDERPLATE.
4. THIS PART CONFORMS TO PRODUCT SPECIFICATION
PS-74031-999.
5. SINGLE ROW ASSEMBLY PACKED PER PK-70873-0876.
6. MATES WITH 74026 SERIES DAUGHTERCARD POWER ASSEMBLY.
7. MATING INTERFACE MEASURED FROM BOTTOM OF HOUSING.



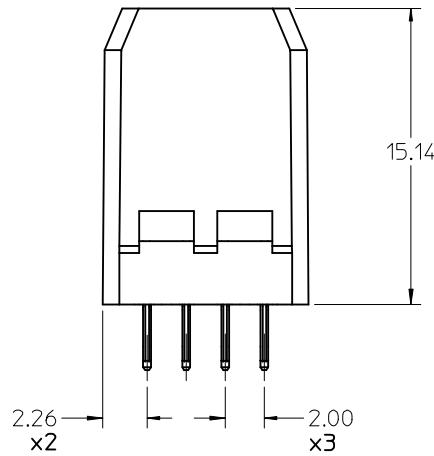
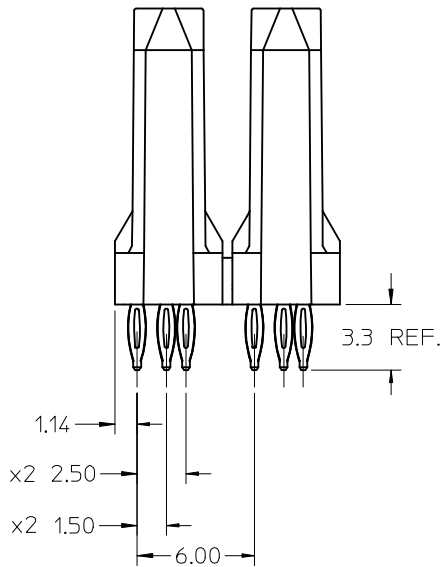
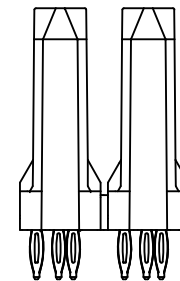
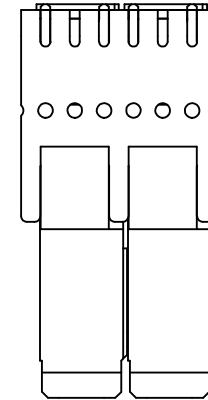
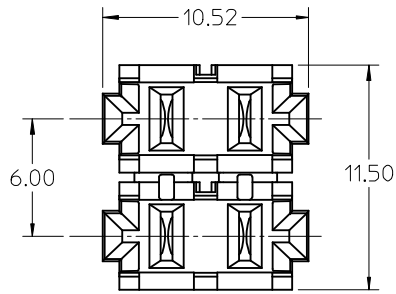
SINGLE ROW ASSEMBLY

MOLEX P/N	GOLD THICKNESS
74029-6000	30uin
74029-6050	50uin

ADD TOLERANCE EC NO: UCP2009-3005 DRWN:BSMART 2009/06/15 CHKD:SDANNELL09/06/16 APPR:SMILLER 2009/06/16	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
		▽ = 0 ∇ = 0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± --- ± --- ANGULAR ± 5 °	DIMENSION STYLE MM ONLY	TITLE	VHDM/HSD POWER 6 ROW BACKPLANE SALES ASSEMBLY		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY DATE ELO 2003/07/14 CHECKED BY DATE STANFORD 2003/07/17 APPROVED BY DATE BIXLER 2003/07/21	MOLEX MOLEX INCORPORATED MATERIAL NO. DOCUMENT NO. SHEET NO. SEE CHART SD-74029-011 1 OF 3				
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

NOTES:

1. THIS DESIGN INTENDED AS OPTION TO HAVING TWO SINGLE ROW MODULES NEXT TO EACH OTHER.
2. FINISH: 30 μ IN GOLD ON MATING SURFACE; TIN/LEAD ON TAILS; NICKEL UNDERPLATE.
3. FINISH: 50 μ IN GOLD ON MATING SURFACE; TIN/LEAD ON TAILS; NICKEL UNDERPLATE.
4. DUAL ROW ASSEMBLIES PACKED PER PK-70873-545.

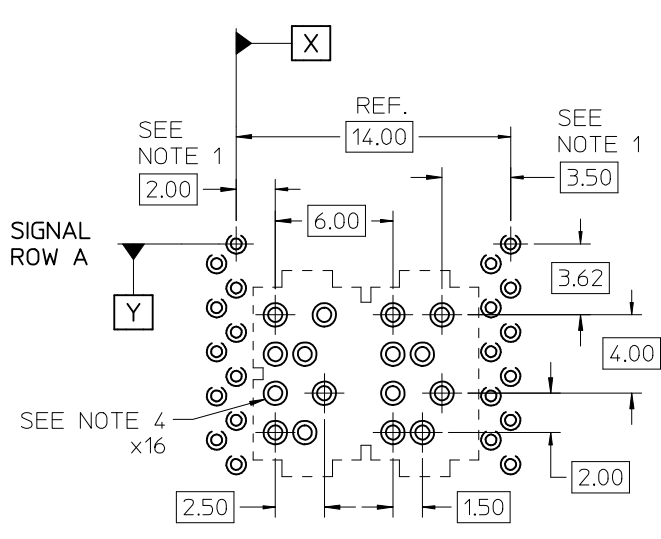


DUAL ROW ASSEMBLY

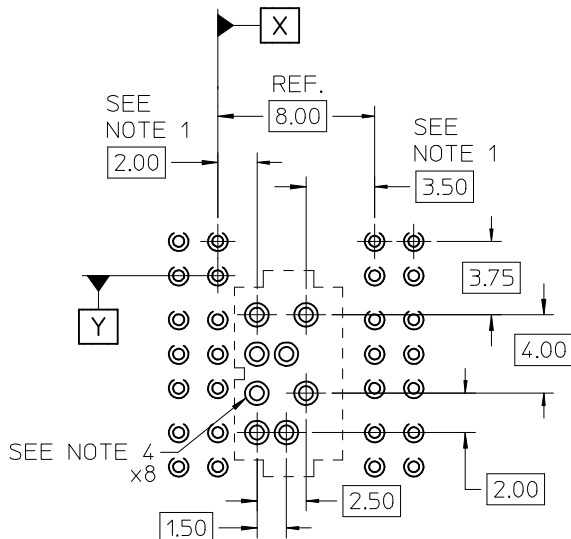
MOLEX P/N	CONTACT PLATING
74029-6002	SEE NOTE 2.
74029-6052	SEE NOTE 3.

SEE SHEET 1 EC NO: UCP2009-3005 DRWN: BSMART 2009/06/15 CHKD: SDANNELL 2009/06/16 APPR: SMILLER 2009/06/16	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
	DESCRIPTION ▽ = 0 ∇ = 0	mm	INCH	DIMENSION STYLE		TITLE
		4 PLACES ± ---	± ---	MM ONLY		VHDM/HSD POWER
		3 PLACES ± ---	± ---	DRAWN BY	DATE	6 ROW BACKPLANE
	2 PLACES ± 0.25	± ---	ELO	2003/07/14	SALES ASSEMBLY	
	1 PLACE ± ---	± ---	CHECKED BY	DATE		
		ANGULAR ± 5 °	STANFORD	2003/07/17	MOLEX INCORPORATED	
		DRAFT WHERE APPLICABLE	APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.
		MUST REMAIN WITHIN DIMENSIONS	BIXLER	2003/07/21	SEE CHART	SD-74029-011
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 2 OF 3	

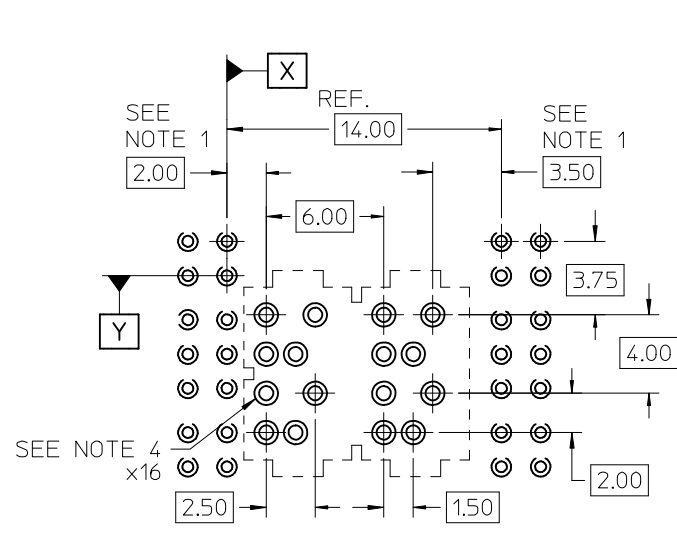
BOARD LAYOUTS: 1.8 mm MIN. BOARD THICKNESS



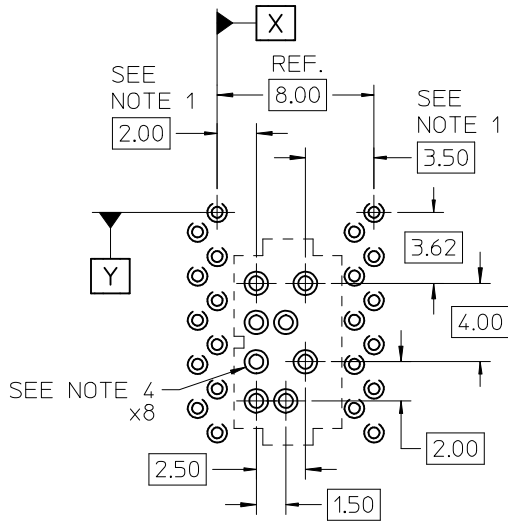
VHDM DUAL ROW POWER



VHDM-HSD SINGLE ROW POWER



VHDM-HSD DUAL ROW POWER



VHDM SINGLE ROW POWER

NOTES:

1. ADDITIONAL SPACING CAN BE ADDED IN MULTIPLES OF 2.0 mm AS REQUIRED. FOR EACH ADDITIONAL SINGLE ROW POWER, ADD 6.00 mm.
2. SIGNAL ROW A IS IN LINE WITH DATUM Y IN ALL FOUR LAYOUTS.
3. FOUR HOLES ARE USED PER POWER CONTACT.
4. EACH POWER HOLE TO BE MANUFACTURED AS FOLLOWS:

- Ø0.725±0.075 PLATED THROUGH HOLE
- Ø1.20 PAD
- Ø0.838 DRILL
- ⊕ 0.10 X Y

SEE SHEET 1 EC NO: UCP2009-3005 DRWN: BSMART 2009/06/15 CHKD: SDANNELZ09/06/16 APPR: SWILLER 2009/06/16	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
	▽ -0 ∇ -0	mm	INCH	DIMENSION STYLE MM ONLY		TITLE VHDM/HSD POWER 6 ROW BACKPLANE SALES ASSEMBLY MOLEX INCORPORATED	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± 0.25 ± ---	1 PLACE ± --- ± ---		DRAWN BY DATE ELO 2003/07/14 CHECKED BY DATE STANFORD 2003/07/17 APPROVED BY DATE BIXLER 2003/07/21
	ANGULAR ± 5 °		DRAFT WHERE APPLICABLE		MATERIAL NO.		DOCUMENT NO.
MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SEE SHT 1 & 2	SD-74029-011		3 OF 3