

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

Drawing (PDF)

Packaging Specification (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Backplane Connectors

Series

74029

Application

Backplane

Application Tooling Documents

Tooling Manual

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

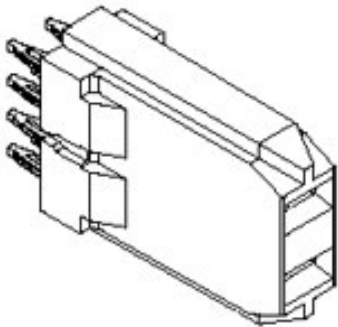


image - Reference only

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

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: 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

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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.

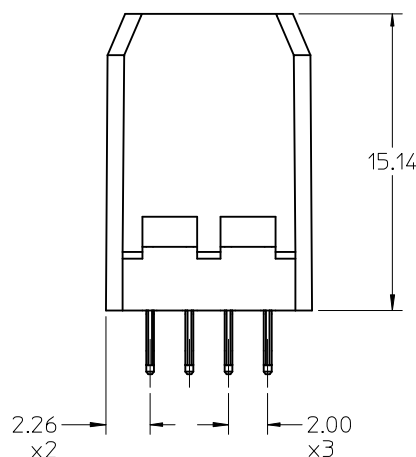
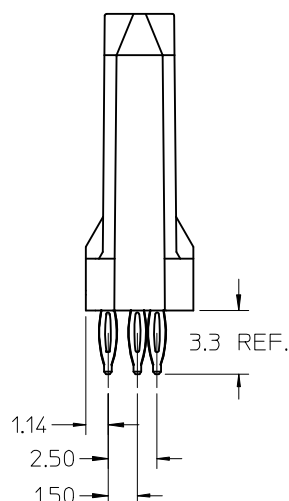
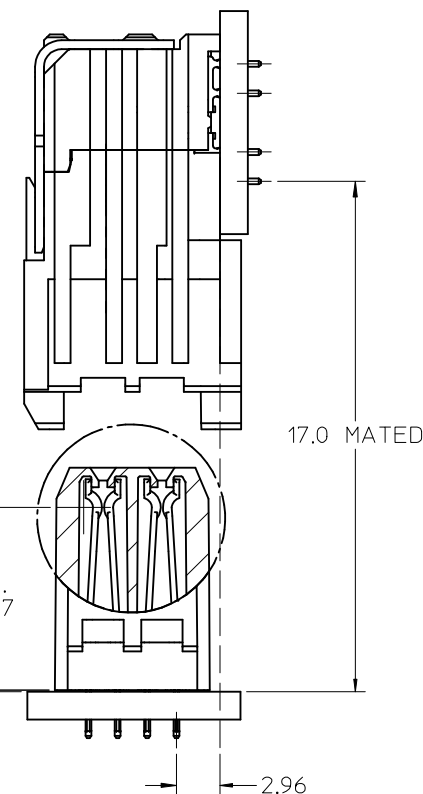
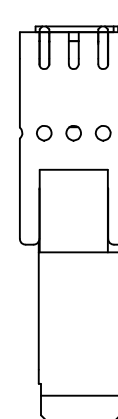
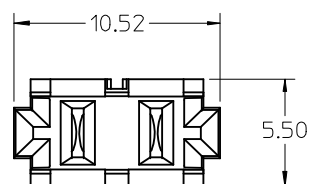
3. FINISH: 50 μ IN MIN. GOLD ON MATING SURFACE;
TIN/LEAD ON TAILS; NICKEL UNDERPLATE.

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.



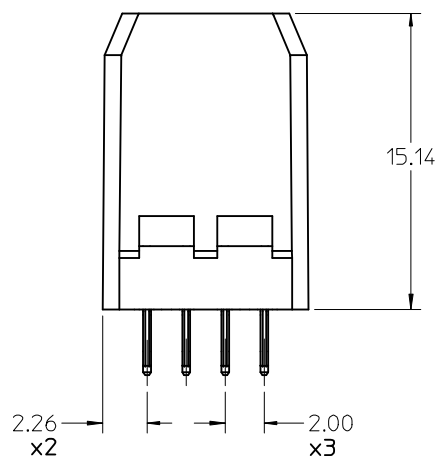
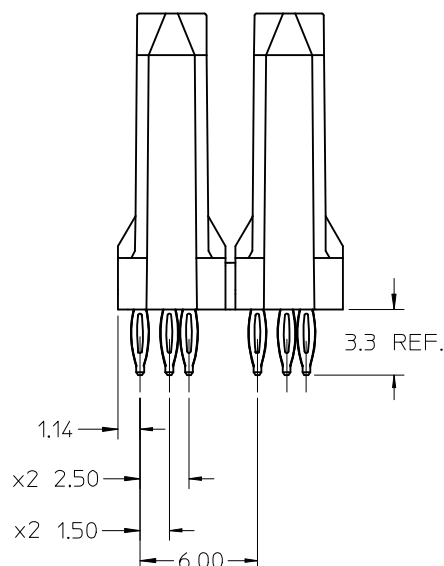
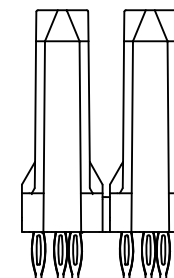
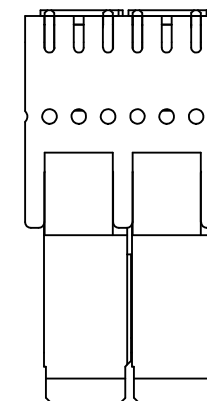
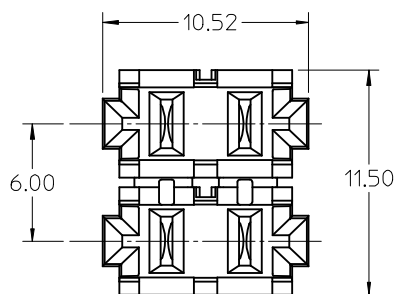
MOLEX P/N	GOLD THICKNESS
74029-6000	30uin
74029-6050	50uin

SINGLE ROW ASSEMBLY

ADD TOLERANCE EC NO: UCP2009-3005 DRWN:BSMART 2009/06/15 CHKD:SDANNELL 2009/06/16 APPR:SMILLER 2009/06/16	DESCRIPTION REV	QUALITY SYMBOLS ▽-0 ◻-0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
				mm	INCH	DIMENSION STYLE MM ONLY		TITLE VHDM/HSD POWER 6 ROW BACKPLANE SALES ASSEMBLY		
			4 PLACES	± ---	± ---	DRAWN BY ELO				
			3 PLACES	± ---	± ---	CHECKED BY STANFORD		DATE 2003/07/17		
			2 PLACES	± 0.25	± ---	APPROVED BY BIXLER		DATE 2003/07/21		
			1 PLACE	± ---	± ---	MOLEX MOLEX INCORPORATED		MATERIAL NO. SEE CHART	DOCUMENT NO. SD-74029-011	SHEET NO. 1 OF 3
			ANGULAR ± 5 °							
			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				

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.

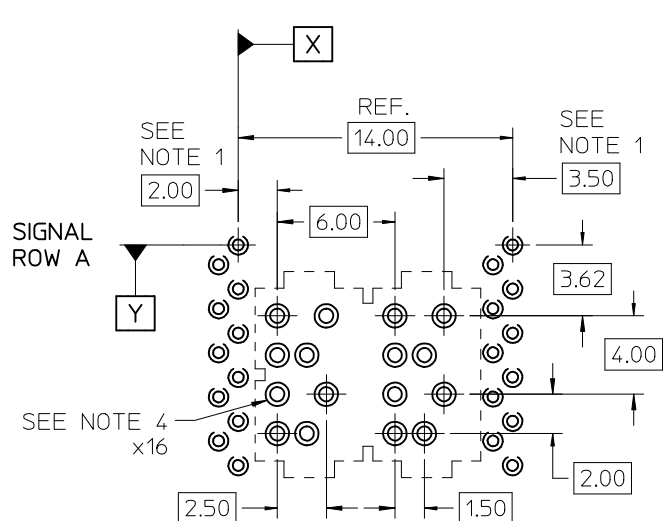


DUAL ROW ASSEMBLY

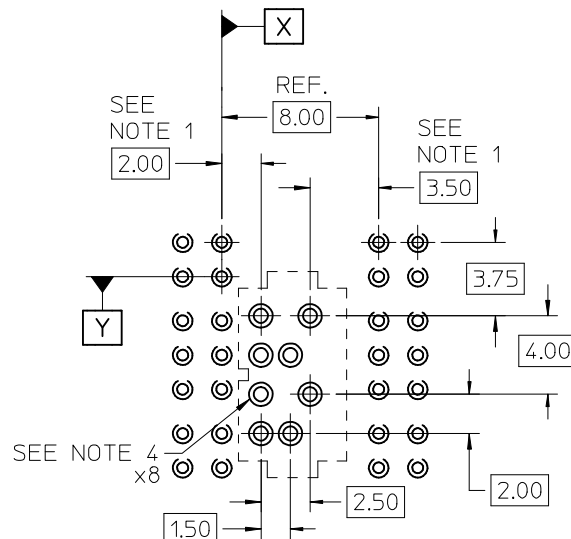
MOLEX P/N	CONTACT PLATING
74029-6002	SEE NOTE 2.
74029-6052	SEE NOTE 3.

SEE SHEET 1 EC NO: UCP2009-3005 DRWN: BSMART 2009/06/15 CHKD: SDANNELL 2009/06/16 APPR: SMILLER 2009/06/16	QUALITY SYMBOLS ▽ = 0 ∇ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± --- ± --- ANGULAR ± 5 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 4:1 DESIGN UNITS METRIC DIMENSION STYLE MM ONLY DRAWN BY DATE ELO 2003/07/14 CHECKED BY DATE STANFORD 2003/07/17 APPROVED BY DATE BIXLER 2003/07/21	THIRD ANGLE PROJECTION REVISE ON CAD ONLY TITLE VHDM/HSD POWER 6 ROW BACKPLANE SALES ASSEMBLY MOLEX INCORPORATED MATERIAL NO. SEE CHART DOCUMENT NO. SD-74029-011 SHEET NO. 2 OF 3

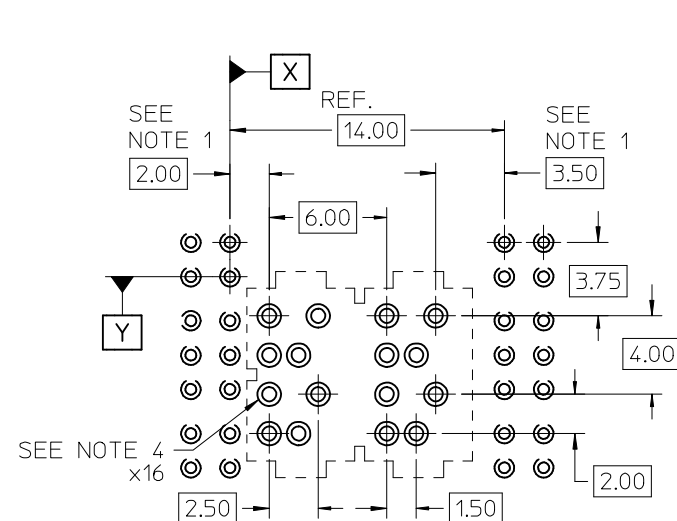
BOARD LAYOUTS: 1.8 mm MIN. BOARD THICKNESS



VHDM DUAL ROW POWER



VHDM-HSD SINGLE ROW POWER



VHDM-HSD DUAL ROW POWER

NOTES:

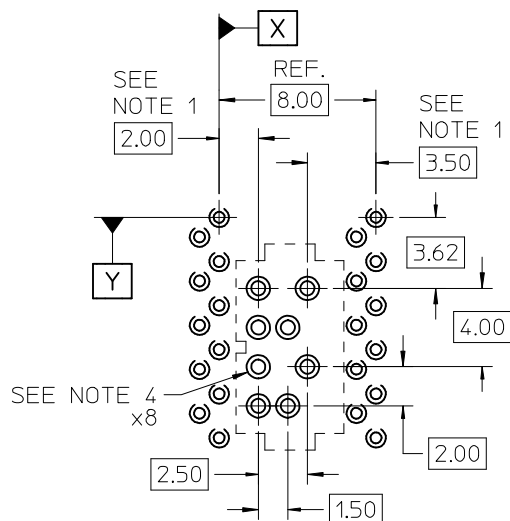
1. ADDITIONAL SPACING CAN BE ADDED IN MULTIPLES OF 2.0 mm AS REQUIRED. FOR EACH ADDITIONAL SINGLE ROW POWER, ADD 6.00 mm.
2. SIGNAL ROW A IS IN LINE WITH DATUM Y IN ALL FOUR LAYOUTS.
3. FOUR HOLES ARE USED PER POWER CONTACT.
4. EACH POWER HOLE TO BE MANUFACTURED AS FOLLOWS:

Ø0.725±0.075 PLATED THROUGH HOLE

Ø1.20 PAD

Ø0.838 DRILL

⌀ 0.10 X Y



VHDM SINGLE ROW POWER

SEE SHEET 1 EC NO: UCP2009-3005 DRWN: BSMART 2009/06/15 CHKD: SDANNELZ 2009/06/16 APPR: SMILLER 2009/06/16	QUALITY SYMBOLS ▴ - 0 ▽ - 0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.25 ± --- 1 PLACE ± --- ± --- ANGULAR ± 5 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 4:1 DESIGN UNITS METRIC DIMENSION STYLE MM ONLY DRAWN BY ELO DATE 2003/07/14 CHECKED BY STANFORD DATE 2003/07/17 APPROVED BY BIXLER DATE 2003/07/21	THIRD ANGLE PROJECTION REVISE ON CAD ONLY TITLE VHDM/HSD POWER 6 ROW BACKPLANE SALES ASSEMBLY MOLEX MOLEX INCORPORATED MATERIAL NO. SEE SHT 1 & 2 DOCUMENT NO. SD-74029-011 SHEET NO. 3 OF 3



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

Наши преимущества:

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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- 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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