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Part Number:

0740612512

Status:

Active

Overview:

[vhdm](#)

Description:

2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin Signal Module, Pin End Version, 200 Circuits, Pin Length 6.25mm (.246")

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family

Backplane Connectors

Series

74061

Application

Backplane

Application Tooling Documents

[Tooling Manual](http://www.molex.com/pdm_docs/ats/TM-622010999.pdf)

Comments

Keying Position A

Component Type

PCB Header

Overview

[vhdm](#)

Product Name

VHDM®

Style

N/A

Physical

Circuits (Loaded)

200

Circuits (maximum)

200

Color - Resin

Black

Durability (mating cycles max)

200

First Mate / Last Break

No

Guide to Mating Part

Yes

Keying to Mating Part

Yes

Material - Metal

Beryllium Copper, High Performance Alloy (HPA), Stainless Steel

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)

0.098 In

PC Tail Length (mm)

2.50 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)

0.079 In

Pitch - Term. 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

No



image - Reference only

Series

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

74061Series

Mates With

74040 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® Signal Pin Inserter Repair Tool                                                                                                                                           | <a href="#">0622015700</a> |
| VHDM® 8 Row and Shield Repair Tool                                                                                                                                              | <a href="#">0622015900</a> |
| VHDM® 8 Row Shield Extraction Tool                                                                                                                                              | <a href="#">0622016100</a> |

|                                                                          |                              |                                         |
|--------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| Surface Mount Compatible (SMC)                                           | Yes                          | VHDM® Insertion <u>0622020206</u>       |
| Temperature Range - Operating                                            | 105°C max                    | Module for Advanced                     |
| Termination Interface: Style                                             | Through Hole - Compliant Pin | Mate Signal Header,                     |
| <b>Electrical</b>                                                        |                              | 6 Row by 25 Wide,                       |
| Current - Maximum per Contact                                            | 1A                           | 50.00mm (1.97")                         |
| Data Rate                                                                | 3.125 Gbps                   | VHDM® Insertion <u>0622020210</u>       |
| Real Signals (per 25mm)                                                  | 100                          | Module for Standard                     |
| Shield Type                                                              | Ground Plane Shield          | Shield Signal                           |
| Shielded                                                                 | Yes                          | Header, 8 Row by                        |
| Voltage - Maximum                                                        | 120V AC (RMS)/DC             | 25 Wide, 50.00mm                        |
| <b>Material Info</b>                                                     |                              | (1.97")                                 |
|                                                                          |                              | Flat Rock Tooling for <u>0622013700</u> |
|                                                                          |                              | Pneumatic Press                         |
| <b>Reference - Drawing Numbers</b>                                       |                              |                                         |
| Sales Drawing                                                            | SD-74061-002                 |                                         |
| VHDM and Very High Density Metric are trademarks of Amphenol Corporation |                              |                                         |

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### BACKPLANE HOLE PATTERN RECOMMENDED DIMENSION

#### NOTES:

##### 1. MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER (LCP),  
GLASS-FILLED, UL 94V-0, COLOR: BLACK  
SIGNAL PIN & SHIELD - 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-74061-003

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



|                                                                                                                           |  |                    |                               |                                                            |       |                            |                             |                    |                                                                                                                               |                        |  |
|---------------------------------------------------------------------------------------------------------------------------|--|--------------------|-------------------------------|------------------------------------------------------------|-------|----------------------------|-----------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
| CORRECTED DIMS<br>EC NO: UCP2008-0329<br>DRWN: JONI AK 2007/08/28<br>CHKD: JONI AK 2007/08/28<br>APPR: CBIXLER 2007/08/28 |  | DESCRIPTION<br>REV | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                             | SCALE<br>2.5:1     | DESIGN UNITS<br>METRIC                                                                                                        | THIRD ANGLE PROJECTION |  |
|                                                                                                                           |  |                    |                               |                                                            | mm    | INCH                       | DRAWN BY<br>MWANG           | DATE<br>1998/11/09 | TITLE<br>VHDM 8 ROW<br>SIGNAL END BACKPLANE<br>SALES ASSEMBLY                                                                 |                        |  |
|                                                                                                                           |  |                    |                               | 4 PLACES                                                   | ± --- | ± ---                      | CHECKED BY<br>JLAURX        | DATE<br>1998/11/09 |                                                                                                                               |                        |  |
|                                                                                                                           |  |                    |                               | 3 PLACES                                                   | ± --- | ± ---                      | APPROVED BY<br>CIBIXER      | DATE<br>1998/11/09 | MOLEX MOLEX INCORPORATED                                                                                                      |                        |  |
|                                                                                                                           |  |                    |                               | 2 PLACES                                                   | ± --- | ± ---                      |                             |                    |                                                                                                                               |                        |  |
|                                                                                                                           |  |                    |                               | 1 PLACE                                                    | ± --- | ± ---                      |                             |                    |                                                                                                                               |                        |  |
|                                                                                                                           |  |                    |                               | ANGULAR ±1/2°                                              |       |                            |                             |                    |                                                                                                                               |                        |  |
|                                                                                                                           |  |                    |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |                            | MATERIAL NO.<br>SEE SHEET 2 |                    | DOCUMENT NO.<br>SD-74061-002                                                                                                  | SHEET NO.<br>1 OF 3    |  |
|                                                                                                                           |  |                    |                               |                                                            |       |                            | SIZE<br>B                   |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |  |

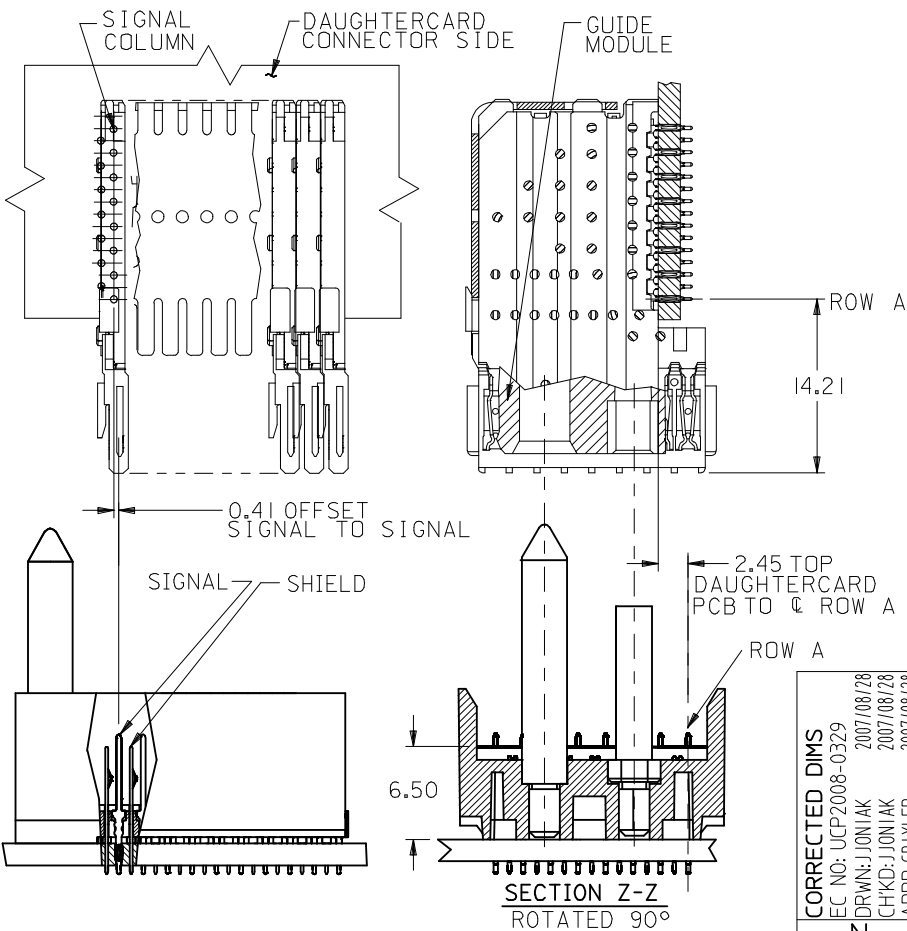
| M/N<br>74061-( )          | -**0* | -**1* | -**2* | -**3* | -**4* | -**5* | -**6* | -**7* | -**8* |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                           | O     | A     | B     | C     | D     | E     | F     | G     | H     |
| KEYING PIN<br>ORIENTATION |       |       |       |       |       |       |       |       |       |

74061 - \* \* \* \*

NUMBER OF COLUMNS/PLATING  
 10 = 10 COLUMN TIN/LEAD  
 12 = 12 COLUMN TIN/LEAD\*  
 25 = 25 COLUMN TIN/LEAD  
 90 = 10 COLUMN MATTE TIN  
 92 = 12 COLUMN MATTE TIN\*  
 85 = 25 COLUMN MATTE TIN

CONTACT LOAD  
 (PIN LENGTH)  
 1 & 6 = 4.75  
 2 & 7 = 6.25  
 3 & 8 = 4.25  
 4 & 9 = 5.15

\*12 COLUMN P/N'S ON SHEET 3



| PART NUMBER | COLUMN | NUMBER OF SIGNAL | NUMBER OF PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|------------------|---------------|------------------|-------|-------|------|-------------------|-------------------|
| 74061-0*1   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
| 74061-0*6   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*1   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74061-5*6   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-0*2   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 74061-0*7   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*2   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 5.15 | 0.76              |                   |
| 74061-5*7   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-0*3   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.75 | 0.76              |                   |
| 74061-0*8   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*3   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74061-5*8   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-0*4   | 10     | 80               | 10            | 10               | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 74061-0*9   |        |                  |               |                  |       |       |      | 1.27              |                   |
| 74061-5*4   | 25     | 200              | 25            | 25               | 57.00 | 48.00 | 5.15 | 0.76              |                   |
| 74061-5*9   |        |                  |               |                  |       |       |      | 1.27              |                   |

|                                                                                                                              |             |                                   |                                       |             |                                                                                                                               |                          |                                                                                               |                        |                           |  |            |
|------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|---------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------|------------------------|---------------------------|--|------------|
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|                                                                                                                              |             |                                   | mm                                    | INCH        | DRAWN BY                                                                                                                      | DATE                     | TITLE<br>VHDM 8 ROW<br>SIGNAL END BACKPLANE<br>SALES ASSEMBLY<br><br>MOLEX MOLEX INCORPORATED |                        |                           |  |            |
|                                                                                                                              |             |                                   | 4 PLACES                              | ± ---       | ± ---                                                                                                                         | MWANG                    |                                                                                               |                        |                           |  | 1998/11/09 |
|                                                                                                                              |             |                                   | 3 PLACES                              | ± ---       | ± ---                                                                                                                         | CHECKED BY               |                                                                                               |                        |                           |  | DATE       |
|                                                                                                                              |             |                                   | 2 PLACES                              | ± ---       | ± ---                                                                                                                         | JLAURX                   |                                                                                               |                        |                           |  | 1998/11/09 |
| 1 PLACE                                                                                                                      |             | ± ---                             | ± ---                                 | APPROVED BY | DATE                                                                                                                          | MOLEX MOLEX INCORPORATED |                                                                                               |                        |                           |  |            |
| ANGULAR                                                                                                                      |             | ± 1/2°                            | CBIXLER                               | 1998/11/09  |                                                                                                                               |                          |                                                                                               |                        |                           |  |            |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                   |             |                                   | MATERIAL NO.                          |             | DOCUMENT NO.                                                                                                                  |                          |                                                                                               |                        | SHEET NO.                 |  |            |
|                                                                                                                              |             |                                   | SEE CHART                             |             | SD-74061-002                                                                                                                  |                          |                                                                                               |                        | 2 OF 3                    |  |            |
|                                                                                                                              |             |                                   | SIZE<br>B                             |             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                                                                                               |                        |                           |  |            |

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