

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0740619021

Status:

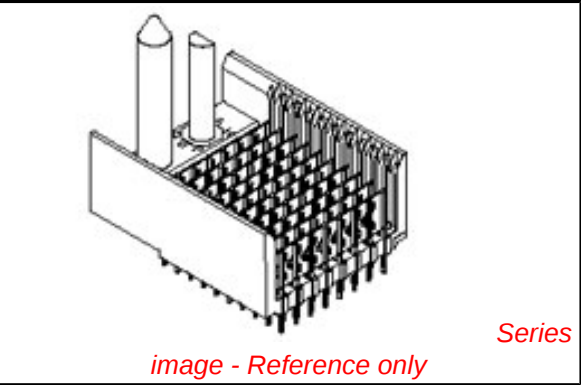
Active

Overview:

[vhdm](#)

Description:

2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin Signal Module, Pin End Version, Lead Free, 80 Circuits, Pin Length 4.75mm (.187")



Documents:

[Drawing \(PDF\)](#)

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

[Product Specification PS-74031-999 \(PDF\)](#)

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| General                        |                                                                                 |
| Product Family                 | Backplane Connectors                                                            |
| Series                         | 74061                                                                           |
| Application                    | Backplane                                                                       |
| Application Tooling Documents  | <a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">Tooling Manual</a> |
| Comments                       | Keying Position B                                                               |
| Component Type                 | PCB Header                                                                      |
| Overview                       | <a href="#">vhdm</a>                                                            |
| Product Name                   | VHDM®                                                                           |
| Style                          | N/A                                                                             |
| Physical                       |                                                                                 |
| Circuits (Loaded)              | 80                                                                              |
| Circuits (maximum)             | 80                                                                              |
| 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                                                                             |
| 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                                                                             |

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not Reviewed

China RoHS



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

|                                                                          |                              |                                         |
|--------------------------------------------------------------------------|------------------------------|-----------------------------------------|
| Stackable                                                                | No                           | VHDM® Insertion <u>0622020205</u>       |
| Surface Mount Compatible (SMC)                                           | Yes                          | Module for Advanced                     |
| Temperature Range - Operating                                            | 105°C max                    | Mate Signal Header,                     |
| Termination Interface: Style                                             | Through Hole - Compliant Pin | 8 Row by 10 Wide,                       |
|                                                                          |                              | 20.00mm (.787")                         |
| <b>Electrical</b>                                                        |                              | VHDM® Insertion <u>0622020209</u>       |
| Current - Maximum per Contact                                            | 1A                           | Module for Standard                     |
| Data Rate                                                                | 3.125 Gbps                   | Shield Signal                           |
| Real Signals (per 25mm)                                                  | 100                          | Header, 8 Row by                        |
| Shield Type                                                              | Ground Plane Shield          | 10 Wide, 20.00mm                        |
| Shielded                                                                 | Yes                          | (.787")                                 |
| Voltage - Maximum                                                        | 120V AC (RMS)/DC             | Flat Rock Tooling for <u>0622013700</u> |
|                                                                          |                              | Pneumatic Press                         |
| <b>Material Info</b>                                                     |                              |                                         |
| <b>Reference - Drawing Numbers</b>                                       |                              |                                         |
| Product Specification                                                    | PS-74031-999                 |                                         |
| 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

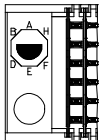
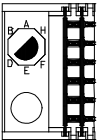
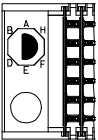
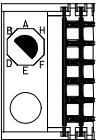
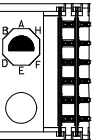
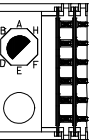
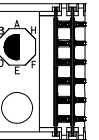
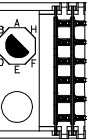
##### 6. PACKAGE PER PK-74061-003

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



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

F

| 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 |  |  |  |  |  |  |  |  |  |

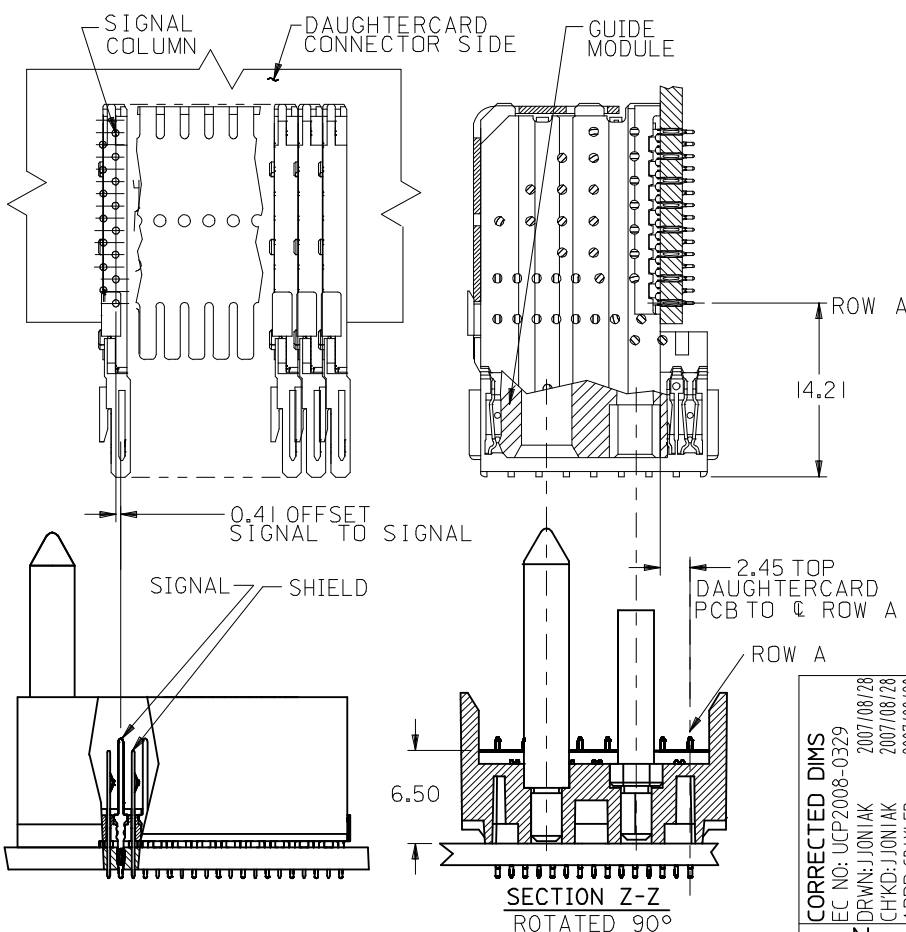
74061 - \* \* \* \*

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

E



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

B

A

|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CORRECTED DIMS<br>EC NO: UCP2008-0329<br>DRWN: JIONIAK 2007/08/28<br>CHKD: JIONIAK 2007/08/28<br>APPR: CBIXLER 2007/08/28<br>REV | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ±1/2° | DIMENSION STYLE<br>MM ONLY<br>DRAWN BY DATE<br>MWANG 1998/11/09<br>CHECKED BY DATE<br>JLAURX 1998/11/09<br>APPROVED BY DATE<br>CBIXLER 1998/11/09<br>MATERIAL NO. | SCALE<br>2.5:1<br>TITLE<br>VHDM 8 ROW<br>SIGNAL END BACKPLANE<br>SALES ASSEMBLY<br>MOLEX INCORPORATED<br>DOCUMENT NO.<br>SD-74061-002<br>SHEET NO.<br>2 OF 3 |
|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |
|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |
|                                                                                                                                  |                               |                                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                              |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

SEE CHART  
SIZE B

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

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кабельные сборки и микроволновые компоненты:

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