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**Part Number:** [0740621002](#)  
**Status:** **Active**  
**Overview:** [vhdm](#)  
**Description:** 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin Signal Module, Shield End Version, 80 Circuits, Pin Length 4.25mm (.167")

**Documents:**

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

**Agency Certification**

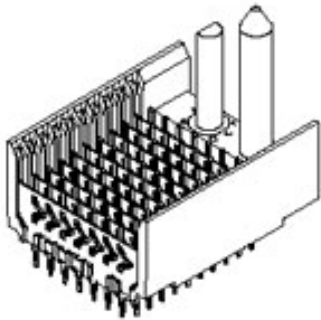
UL E29179

**General**

Product Family Backplane Connectors  
Series [74062](#)  
Application Backplane  
Application Tooling Documents <a href="http://www.molex.com/pdm\_docs/ats/TM-622010999.pdf">Tooling Manual</a>  
Comments No Keying Position  
Component Type PCB Header  
Overview [vhdm](#)  
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  
Flammability 94V-0  
Guide to Mating Part Yes  
Keying to Mating Part None  
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



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**REACH SVHC**

Not Reviewed

**Halogen-Free**

**Status**

**Halogen-Free**

**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**

[74062Series](#)

**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 #                  |
|----------------------------------------|----------------------------|
| Flat Rock Tooling for Pneumatic Press  | <a href="#">0622013700</a> |
| VHDM® Signal Pin                       | <a href="#">0622015700</a> |
| Insert Repair Tool                     |                            |
| VHDM® 8 Row Pin and Shield Repair Tool | <a href="#">0622015900</a> |

|                                |                              |
|--------------------------------|------------------------------|
| Plating min: Termination (µin) | 30                           |
| Plating min: Termination (µm)  | 0.75                         |
| Polarized to PCB               | Yes                          |
| Stackable                      | Yes                          |
| 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 | 1A                  |
| Data Rate                     | 3.125 Gbps          |
| Real Signals (per 25mm)       | 100                 |
| Shield Type                   | Ground Plane Shield |
| Shielded                      | Yes                 |
| Voltage - Maximum             | 120V AC (RMS)/DC    |

**Material Info**

**Reference - Drawing Numbers**

|               |              |
|---------------|--------------|
| Sales Drawing | SD-74062-002 |
|---------------|--------------|

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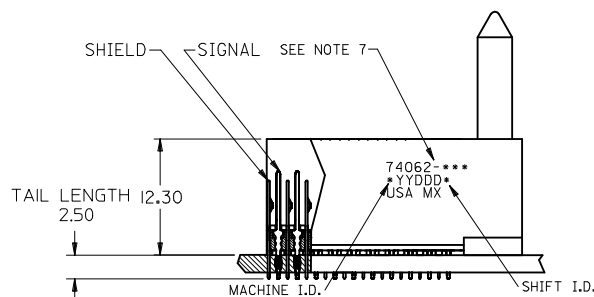
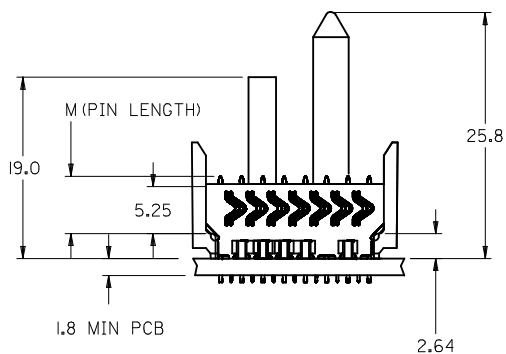
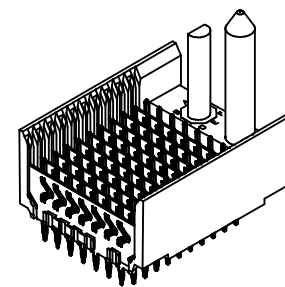
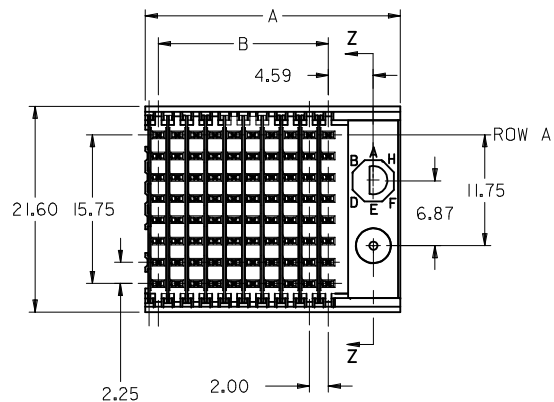
|                                                                                             |                            |
|---------------------------------------------------------------------------------------------|----------------------------|
| VHDM® 8 Row Shield Extraction Tool                                                          | <a href="#">0622016100</a> |
| VHDM® Insertion Module for Advanced Mate Signal Header, 8 Row by 10 Wide, 20.00mm (.787")   | <a href="#">0622020205</a> |
| VHDM® Insertion Module for Standard Shield Signal Header, 8 Row by 10 Wide, 20.00mm (.787") | <a href="#">0622020209</a> |

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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.

|                                                                                                                             |                                   |                                                                                                                                                                                                                                 |                                                                                                                                      |                    |                                                                                               |                        |                        |  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------|------------------------|------------------------|--|
| ADD NO GDE/NO KEY<br>EC NO: UCP2009-2089<br>DRWN:BSMART 2009/02/23<br>CHKD:SDANIELLEY 2009/02/23<br>APPR:SMILLER 2009/02/23 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br><br>mmINCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ±1/2°<br><br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE<br>MM ONLY                                                                                                           |                    | SCALE                                                                                         | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 | DRAWN BY<br>MWANG                                                                                                                    | DATE<br>1998/11/12 | TITLE<br>VHDM 8 ROW<br>SHIELD END BACKPLANE<br>SALES ASSEMBLY<br><br>MOLEX MOLEX INCORPORATED |                        |                        |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 | CHECKED BY<br>JLAURX                                                                                                                 | DATE<br>1998/11/12 |                                                                                               |                        |                        |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 | APPROVED BY<br>CB1XLER                                                                                                               | DATE<br>1998/11/12 |                                                                                               |                        |                        |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 | MATERIAL NO.<br>SEE SHEET 2                                                                                                          |                    | DOCUMENT NO.<br>SD-74062-002                                                                  |                        | SHEET NO.<br>1 OF 2    |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 | SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                                                               |                        |                        |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 |                                                                                                                                      |                    |                                                                                               |                        |                        |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 |                                                                                                                                      |                    |                                                                                               |                        |                        |  |
|                                                                                                                             |                                   |                                                                                                                                                                                                                                 |                                                                                                                                      |                    |                                                                                               |                        |                        |  |

| M/N<br>74062-( )          | ---0* | ---1* | ---2* | ---3* | ---4* | ---5* | ---6* | ---7* | ---8* | ---9* |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| KEYING PIN<br>ORIENTATION |       |       |       |       |       |       |       |       |       |       |

NO GUIDE PIN  
NO KEYING PIN

74062 - \* \* \*

NUMBER OF COLUMNS/PLATING  
10 = 10 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
90 = 10 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



| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|-------------------|
| 74062-*0*1  | 10     | 80                   | 10               | 27.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
| 74062-*0*6  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*5*1  | 25     | 200                  | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74062-*5*6  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*0*2  | 10     | 80                   | 10               | 27.00 | 18.00 | 4.25 | 0.76              |                   |
| 74062-*0*7  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*5*2  | 25     | 200                  | 25               | 57.00 | 48.00 | 5.15 | 0.76              |                   |
| 74062-*5*7  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*0*3  | 10     | 80                   | 10               | 27.00 | 18.00 | 4.75 | 0.76              |                   |
| 74062-*0*8  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*5*3  | 25     | 200                  | 25               | 57.00 | 48.00 | 6.25 | 0.76              |                   |
| 74062-*5*8  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*0*4  | 10     | 80                   | 10               | 27.00 | 18.00 | 5.15 | 0.76              |                   |
| 74062-*0*9  |        |                      |                  |       |       |      | 1.27              |                   |
| 74062-*5*4  | 25     | 200                  | 25               | 57.00 | 48.00 | 4.75 | 0.76              |                   |
| 74062-*5*9  |        |                      |                  |       |       |      | 1.27              |                   |

|                                                                                                                             |             |                               |                                                            |       |                            |                                                                                                                               |                              |                                                      |                        |
|-----------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|------------------------------------------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------------|------------------------|
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|                                                                                                                             |             |                               |                                                            | mm    | INCH                       | DRAWN BY DATE                                                                                                                 |                              | TITLE                                                |                        |
|                                                                                                                             |             |                               | 4 PLACES                                                   | ± --- | ± ---                      | MWANG 1998/11/12                                                                                                              |                              | VHDM 8 ROW<br>SHIELD END BACKPLANE<br>SALES ASSEMBLY |                        |
|                                                                                                                             |             |                               | 3 PLACES                                                   | ± --- | ± ---                      | CHECKED BY DATE                                                                                                               |                              |                                                      |                        |
|                                                                                                                             |             |                               | 2 PLACES                                                   | ± --- | ± ---                      | JLAURX 1998/11/12                                                                                                             |                              |                                                      |                        |
| 1 PLACE                                                                                                                     | ± ---       | ± ---                         | APPROVED BY DATE                                           |       |                            |                                                                                                                               |                              |                                                      |                        |
|                                                                                                                             |             |                               | ANGULAR ±1/2°                                              |       | CBIXLER 1998/11/12         |                                                                                                                               | MOLEX INCORPORATED           |                                                      |                        |
|                                                                                                                             |             |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | MATERIAL NO.<br>SEE CHART  |                                                                                                                               | DOCUMENT NO.<br>SD-74062-002 |                                                      | SHEET NO.<br>2 OF 2    |
|                                                                                                                             | REV         |                               |                                                            |       | SIZE<br>C                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                              |                                                      |                        |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

SEE CHART

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