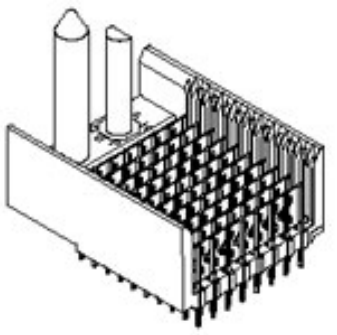
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0740611004
**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, 80 Circuits, Pin Length 5.15mm (.203")



*Series image - Reference only*

**Documents:**
Drawing (PDF)
RoHS Certificate of Compliance (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 | 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 |
| 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 |
| Plating min: Termination (µin) | 30 |
| Plating min: Termination (µm) | 0.75 |
| Polarized to PCB | Yes |
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |

**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**
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 | 0622015700 |
| VHDM® 8 Row Pin and Shield Repair Tool | 0622015900 |
| VHDM® 8 Row Shield Extraction Tool | 0622016100 |

| | |
|---|---|
| Temperature Range - Operating | 105°C max |
| 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 |

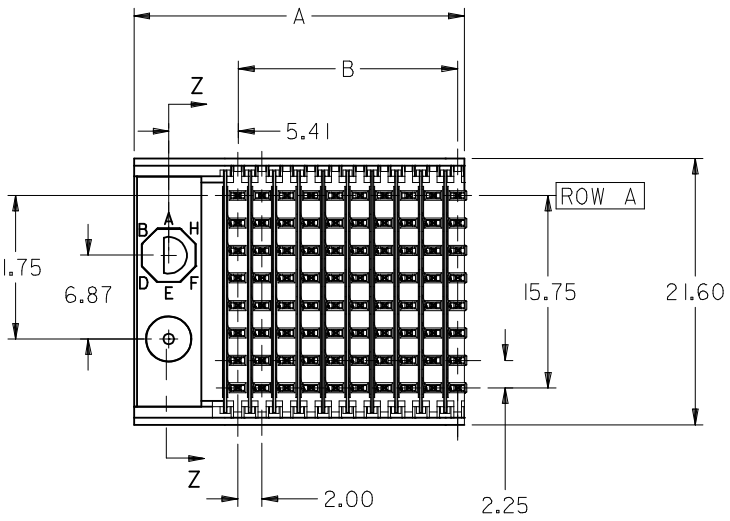
## Material Info

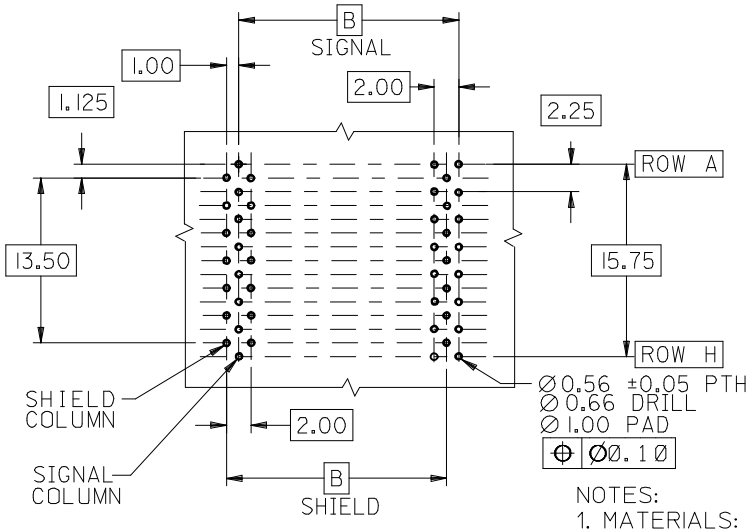
## Reference - Drawing Numbers

| | |
|---|---|
| Sales Drawing | SD-74061-002 |

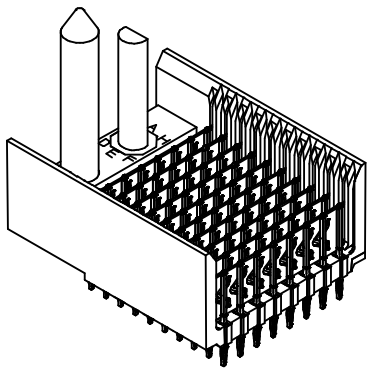
VHDM and Very High Density Metric are trademarks of Amphenol Corporation

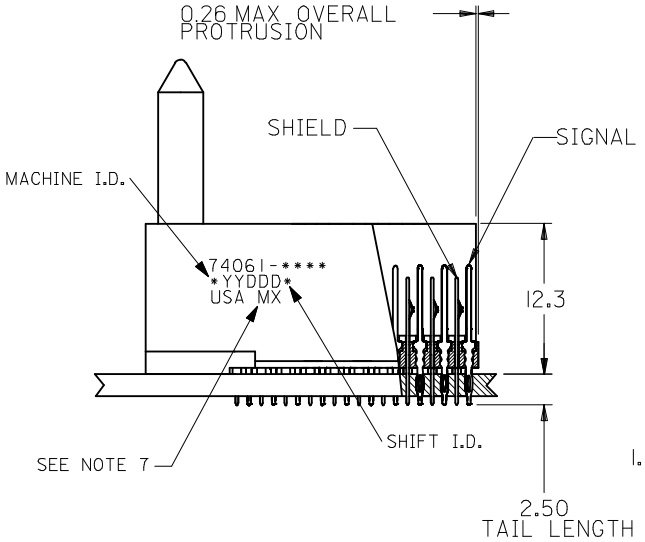
| | |
|---|---|
| VHDM® Insertion Module for Advanced Mate Signal Header, 8 Row by 10 Wide, 20.00mm (.787") | 0622020205 |
| VHDM® Insertion Module for Standard Shield Signal Header, 8 Row by 10 Wide, 20.00mm (.787") | 0622020209 |
| Flat Rock Tooling for Pneumatic Press | 0622013700 |

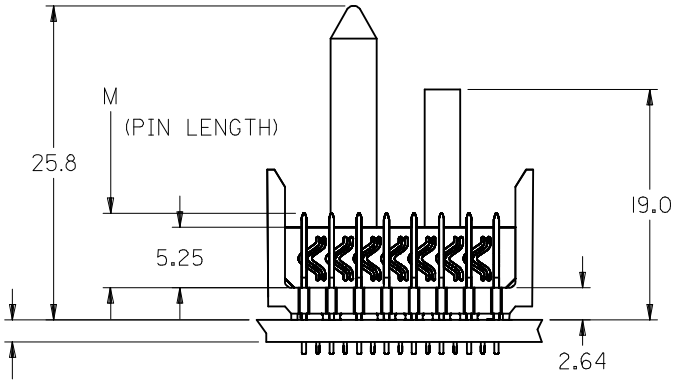



BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION






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
EC NO: UCP2008-0329 2007/08/28
DRWN: JJONIAK 2007/08/28
CHKD: JJONIAK 2007/08/28
APPR: CBIXLER 2007/08/28
DESCRIPTION
N
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | | DATE |
|---|---|---|
| DRAWN BY | MWANG | 1998/11/09 |
| CHECKED BY | JLAURX | 1998/11/09 |
| APPROVED BY | CIBIXER | 1998/11/09 |

TITLE: VHDM 8 ROW SIGNAL END BACKPLANE SALES ASSEMBLY

MOLEX INCORPORATED

MATERIAL NO.: SEE SHEET 2
DOCUMENT NO.: SD-74061-002
SHEET NO.: 1 OF 3

SIZE B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

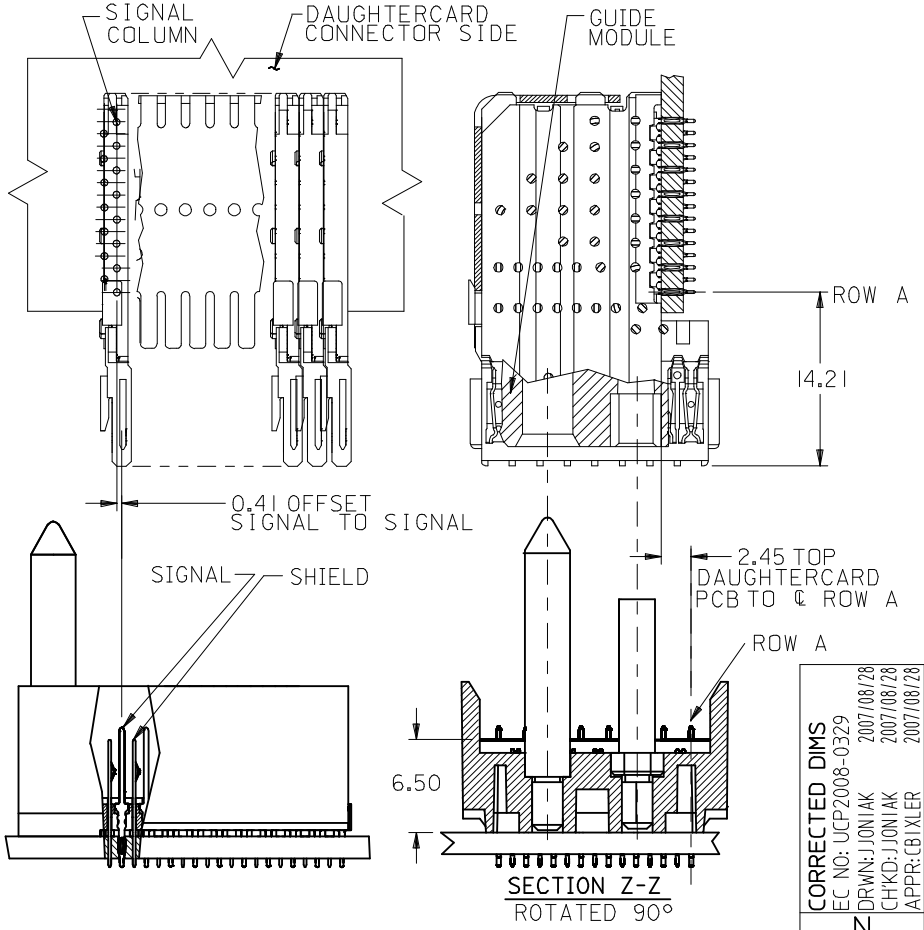
| M/N 74061-( ) | -**0* | -**1* | -**2* | -**3* | -**4* | -**5* | -**6* | -**7* | -**8* |
|---|---|---|---|---|---|---|---|---|---|
| KEYING PIN ORIENTATION | 0 | A | B | C | D | E | F | G | H |

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 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 | | 0.76 | |
| 74061-*5*6 | | | | | | | 1.27 | |
| 74061-*0*2 | 10 | 80 | 10 | 27.00 | 18.00 | 6.25 | 0.76 | |
| 74061-*0*7 | | | | | | | 1.27 | |
| 74061-*5*2 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 74061-*5*7 | | | | | | | 1.27 | |
| 74061-*0*3 | 10 | 80 | 10 | 27.00 | 18.00 | 4.25 | 0.76 | |
| 74061-*0*8 | | | | | | | 1.27 | |
| 74061-*5*3 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 74061-*5*8 | | | | | | | 1.27 | |
| 74061-*0*4 | 10 | 80 | 10 | 27.00 | 18.00 | 5.15 | 0.76 | |
| 74061-*0*9 | | | | | | | 1.27 | |
| 74061-*5*4 | 25 | 200 | 25 | 57.00 | 48.00 | | 0.76 | |
| 74061-*5*9 | | | | | | | 1.27 | |

CORRECTED DIMS
EC NO: UCP2008-0329 2007/08/28
DRWN: JONIAK 2007/08/28
CHKD: JONIAK 2007/08/28
APPR: CBIXLER 2007/08/28
DESCRIPTION
REV N

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
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| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± --- | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2.5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: MWANG DATE: 1998/11/09
CHECKED BY: JLAURX DATE: 1998/11/09
APPROVED BY: CBIXLER DATE: 1998/11/09

TITLE: VHDM 8 ROW SIGNAL END BACKPLANE SALES ASSEMBLY

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-74061-002
SHEET NO.: 2 OF 3
SIZE: B

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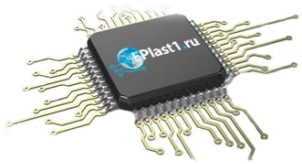
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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- 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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**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.