

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

**Part Number:** [0740601003](#)  
**Status:** **Active**  
**Overview:** [vhdm](#)  
**Description:** 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 8-Row, Open Signal Module, 80 Circuits, Pin Length 4.25mm (.167")

**Documents:**

[3D Model](#) [Product Specification PS-74031-999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

UL E29179

**General**

Product Family Backplane Connectors  
 Series [74060](#)  
 Application Backplane  
 Application Tooling Documents [Tooling Manual](http://www.molex.com/pdm_docs/ats/TM-622010999.pdf)  
 Comments Open Header  
 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 No  
 Keying to Mating Part None  
 Material - Metal Beryllium Copper, 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 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) 0.039 In  
 Pitch - Term. Interface (mm) 1.00 mm  
 Plating min: Mating (µin) 30  
 Plating min: Mating (µm) 0.75  
 Plating min: Termination (µin) 30

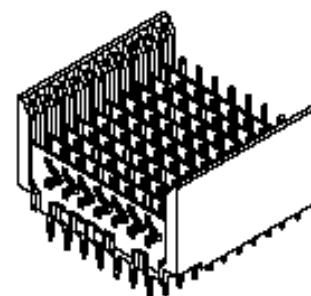


image - Reference only

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**

[74060Series](#)

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

|                                |                              |
|--------------------------------|------------------------------|
| 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 | 3A                  |
| 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

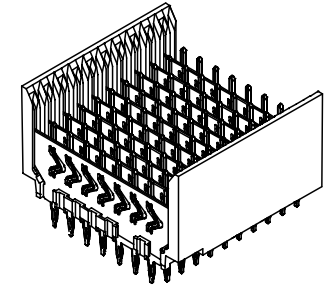
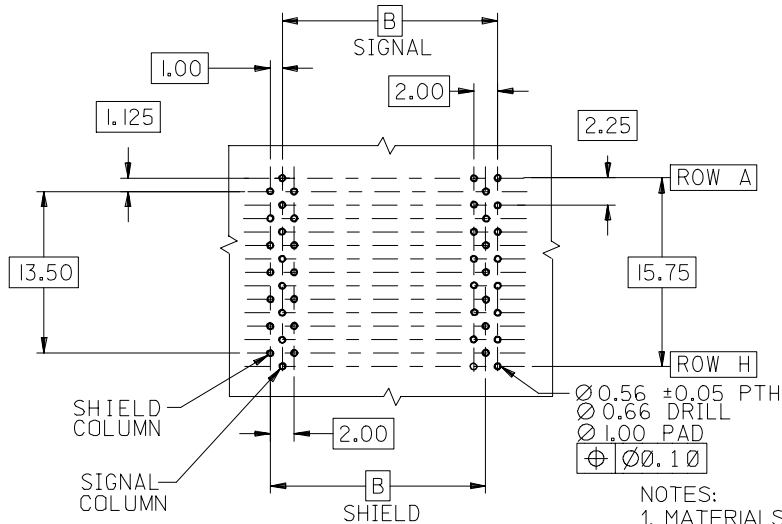
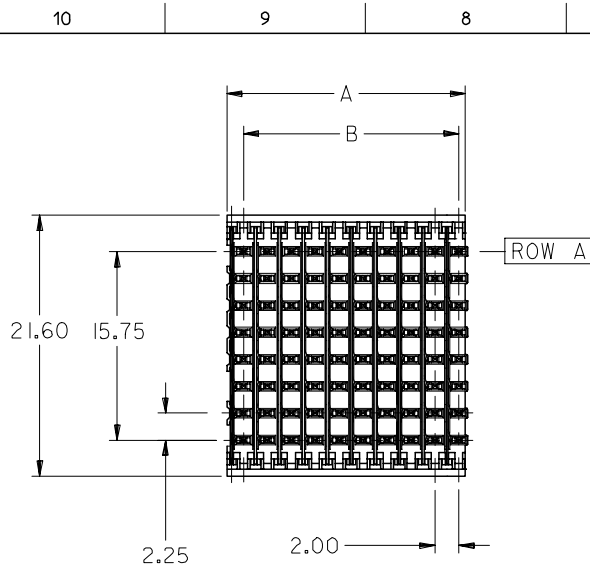
|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-74060-003 |
| Product Specification   | PS-74031-999 |
| Sales Drawing           | SD-74060-002 |

VHDM and Very High Density Metric are trademarks of Amphenol Corporation

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

This document was generated on 05/19/2010

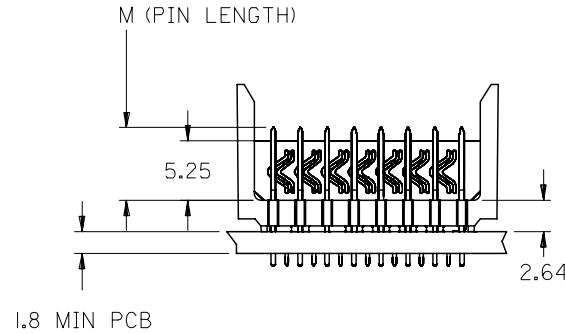
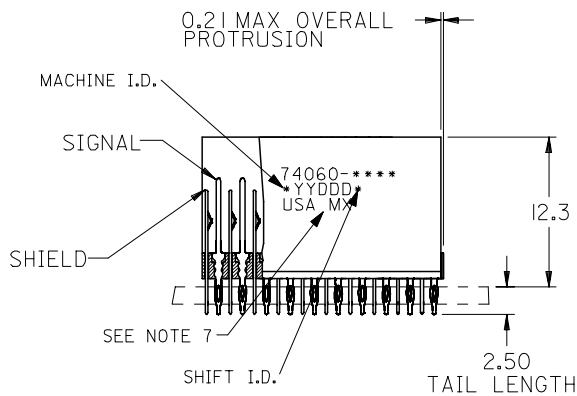
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



**BACKPLANE HOLE PATTERN  
RECOMMENDED DIMENSION**

**NOTES:**

- MATERIALS:**  
HOUSING - LIQUID CRYSTAL POLYMER (LCP),  
GLASS-FILLED, UL 94V-0, COLOR: BLACK  
SIGNAL PIN & SHIELD - COPPER ALLOY
- FINISHES:**  
CONTACT AREA: SELECTIVE GOLD (Au)  
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb)  
OR SELECTIVE MATTE TIN (Sn)  
NICKEL (Ni) OVERALL.
- THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999
- FOR MIXED CONTACT LENGTHS CONSULT MOLEX FOR AVAILABILITY
- FOR SPECIFIC MATERIAL NUMBERS & MATING INFORMATION REFER TO SHEET 2
- PACKAGE PER PK-74060-003
- EITHER MARK PART WITH PART NUMBER & DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.

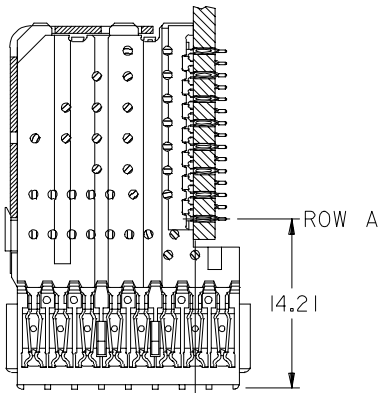
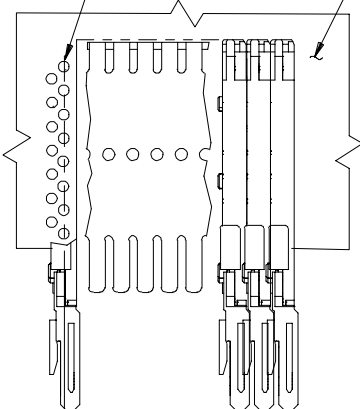


|   |                      |   |  |   |                              |                     |                        |                        |
|---|----------------------|---|--|---|------------------------------|---------------------|------------------------|------------------------|
| ADD LEADFREE PINS<br>EC NO: UCP2006-0079<br>DRW: KMK/MLVEY<br>CHKD: 2005/07/21<br>APPR: SREED<br>2005/07/22 | DESCRIPTION<br>REV J | 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 |
|   |                      | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± --- | DRAWN BY<br>MWANG<br>DATE<br>1998/11/09      | TITLE<br>VHDM 8 ROW<br>OPEN END BACKPLANE<br>SALES ASSEMBLY |                              |                     |                        |                        |
|   |                      | ANGULAR ±1/2°   | CHECKED BY<br>JLAURX<br>DATE<br>1998/11/09   | MOLEX INCORPORATED  |                              |                     |                        |                        |
|   |                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                  | APPROVED BY<br>CBIXLER<br>DATE<br>1998/11/09 | MATERIAL NO.<br>SEE SHEET 2                                 | DOCUMENT NO.<br>SD-74060-002 | SHEET NO.<br>1 OF 2 |                        |                        |

10 9 8 7 6 5 4 3 2 1

F  
E  
D  
C  
B  
A

SIGNAL COLUMN  
DAUGHTERCARD CONNECTOR SIDE



| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|-------------------|
| 74060-*001  | 10     | 80                   | 10               | 20.00 | 18.00 | 4.75 | 0.76              | 0.76-1.52         |
| 74060-*006  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*501  | 25     | 200                  | 25               | 50.00 | 48.00 | 6.25 | 0.76              |                   |
| 74060-*506  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*002  | 10     | 80                   | 10               | 20.00 | 18.00 | 4.25 | 0.76              |                   |
| 74060-*007  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*502  | 25     | 200                  | 25               | 50.00 | 48.00 | 5.15 | 0.76              |                   |
| 74060-*507  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*003  | 10     | 80                   | 10               | 20.00 | 18.00 | 4.25 | 0.76              |                   |
| 74060-*008  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*503  | 25     | 200                  | 25               | 50.00 | 48.00 | 5.15 | 0.76              |                   |
| 74060-*508  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*004  | 10     | 80                   | 10               | 20.00 | 18.00 | 4.25 | 0.76              |                   |
| 74060-*009  |        |                      |                  |       |       |      | 1.27              |                   |
| 74060-*504  | 25     | 200                  | 25               | 50.00 | 48.00 | 4.75 | 0.76              |                   |
| 74060-*509  |        |                      |                  |       |       |      | 1.27              |                   |

ROW A  
14.21

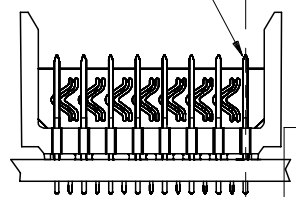
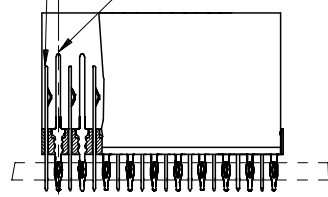
0.41 OFFSET SIGNAL TO SIGNAL

TOP OF DAUGHTERCARD PCB TO  $\phi$  OF ROW A

2.45

SHIELD  
SIGNAL

ROW A



MATERIAL NUMBER ASSIGNMENT

74060-\*\*\* \*\*

SEE TABLE  
NUMBER OF COLUMNS/PLATING  
10 = 10 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
90 = 10 COLUMN MATTE TIN  
85 = 25 COLUMN MATTE TIN

SEE SHEET 1  
EC NO: UCP2006-0079  
DRW:KIMULVEY 2005/07/20  
CHKD: 2005/07/21  
APPR: SREED 2005/07/22

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

DRAWN BY DATE  
MWANG 1998/11/09

CHECKED BY DATE  
JLAURX 1998/11/09

APPROVED BY DATE  
CBIXLER 1998/11/09

MATERIAL NO.  
SEE CHART

SIZE  
B

SCALE  
2.5:1

DESIGN UNITS  
METRIC

THIRD ANGLE PROJECTION

TITLE  
VHDM 8 ROW  
OPEN END BACKPLANE  
SALES ASSEMBLY

MOLEX INCORPORATED

DOCUMENT NO.  
SD-74060-002

SHEET NO.  
2 OF 2

9 8 7 6 5 4 3 2 1



## Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

### Наши контакты:

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331