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**Part Number:** [0767639001](#)  
**Status:** **Active**  
**Overview:** [vhdm\\_h](#)  
**Description:** 2.00mm (.079") Pitch VHDM® H Board-to-Board Backplane Header, Vertical, 6-Row, Open End Module, Open Ends Version, 150 Circuits, Pin Length 4.75mm (.187"), Lead Free

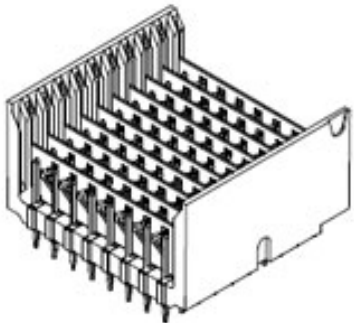
**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-74031-999 \(PDF\)](#)

**General**

|                |                        |
|----------------|------------------------|
| Product Family | Backplane Connectors   |
| Series         | <a href="#">76763</a>  |
| Application    | Backplane              |
| Comments       | No Keying Position     |
| Component Type | PCB Header             |
| Overview       | <a href="#">vhdm_h</a> |
| Product Name   | VHDM® - H Series       |
| Style          | N/A                    |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Circuits (Loaded)              | 60                             |
| Circuits (maximum)             | 60                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 200                            |
| First Mate / Last Break        | No                             |
| Guide to Mating Part           | No                             |
| Keying to Mating Part          | None                           |
| Material - Metal               | Copper Alloy                   |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Columns              | 10                             |
| Number of Pairs                | Open Pin Field                 |
| Number of Rows                 | 6                              |
| Orientation                    | Vertical                       |
| PC Tail Length (in)            | 0.072 In                       |
| PC Tail Length (mm)            | 1.83 mm                        |
| PCB Locator                    | No                             |
| PCB Retention                  | None                           |
| PCB Thickness Recommended (in) | 0.072 In                       |
| PCB Thickness Recommended (mm) | 1.83 mm                        |
| Packaging Type                 | Tube                           |
| Pitch - Mating Interface (in)  | 0.079 In                       |
| Pitch - Mating Interface (mm)  | 2.00 mm                        |
| Pitch - Term. Interface (in)   | 0.089 In                       |
| Pitch - Term. Interface (mm)   | 2.25 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                            |
| Temperature Range - Operating  | -55°C to +85°C                 |



Series

image - Reference only

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
Not Reviewed  
**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**  
[76763Series](#)

**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® 6 Row Pin                                                           | <a href="#">0622015800</a> |
| and Shield Repair Tool                                                    |                            |
| VHDM® 6 Row                                                               | <a href="#">0622016000</a> |
| Shield Extraction Tool                                                    |                            |
| VHDM® Insertion                                                           | <a href="#">0622020207</a> |
| Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787") |                            |

|                              |                              |
|------------------------------|------------------------------|
| Termination Interface: Style | Through Hole - Compliant Pin |
|------------------------------|------------------------------|

**Electrical**

|                               |                     |
|-------------------------------|---------------------|
| Current - Maximum per Contact | 1A                  |
| Data Rate                     | 6.25 Gbps           |
| Real Signals (per 25mm)       | 75                  |
| Shield Type                   | Ground Plane Shield |
| Shielded                      | Yes                 |
| Voltage - Maximum             | 120V AC (RMS)/DC    |

**Material Info**

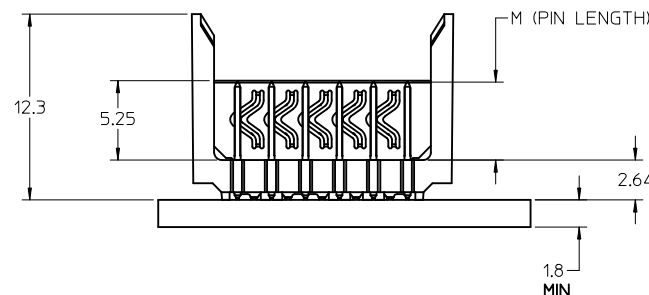
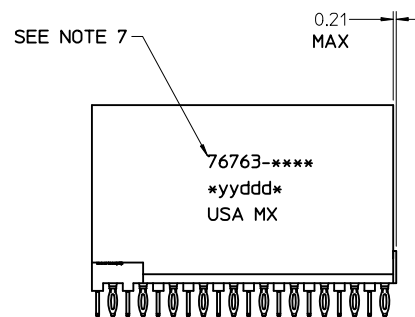
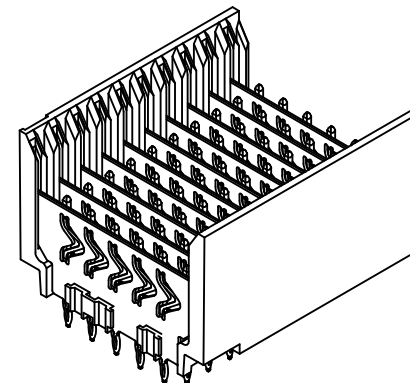
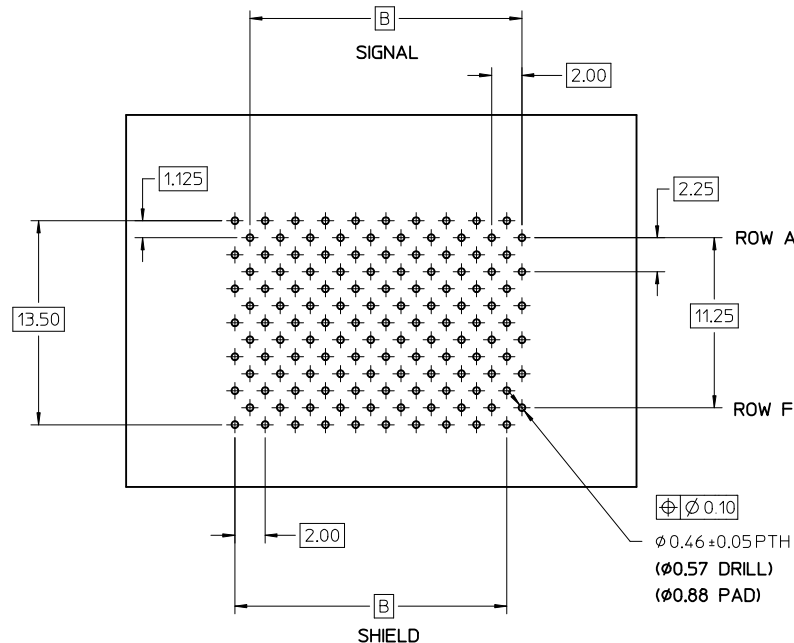
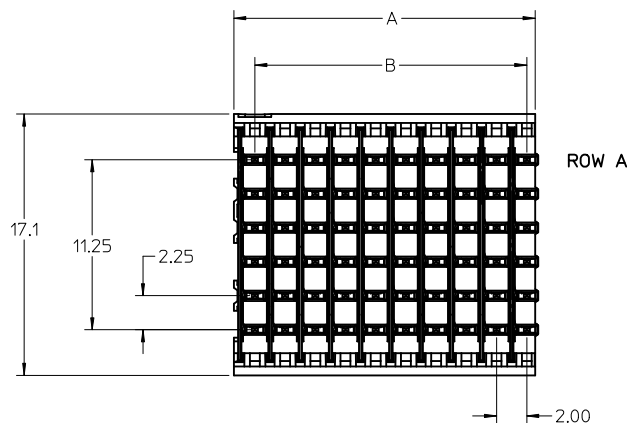
**Reference - Drawing Numbers**

|                         |              |
|-------------------------|--------------|
| Packaging Specification | PK-74057-003 |
| Product Specification   | PS-74031-999 |
| Sales Drawing           | SD-76763-001 |

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# NOTES:

## 1. MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER (LCP)

GLASS FILLED, UL94V-0, BLACK

SIGNAL PIN AND SHIELD - COPPER ALLOY

## 2. FINISHES:

CONTACT AREA - SELECTIVE GOLD (Au)

PCB TAILS - SELECTIVE TIN/LEAD (SnPb) OR MATTE TIN (Sn)

3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION

PS-74031-999.

4. FOR MIXED CONTACT LENGTH CONTACT MOLEX FOR AVAILABILITY.

5. FOR SPECIFIC MATERIAL NUMBERS AND MATING INFORMATION REFER TO SHEET 2.

6. PACKAGE PER PK-74057-003.

7. ASSEMBLY WILL BE MARKED WITH P/N AND DATE CODE WITH LASER MARK ON SIDE OF HOUSING OR BY LABEL ON THE TUBE.

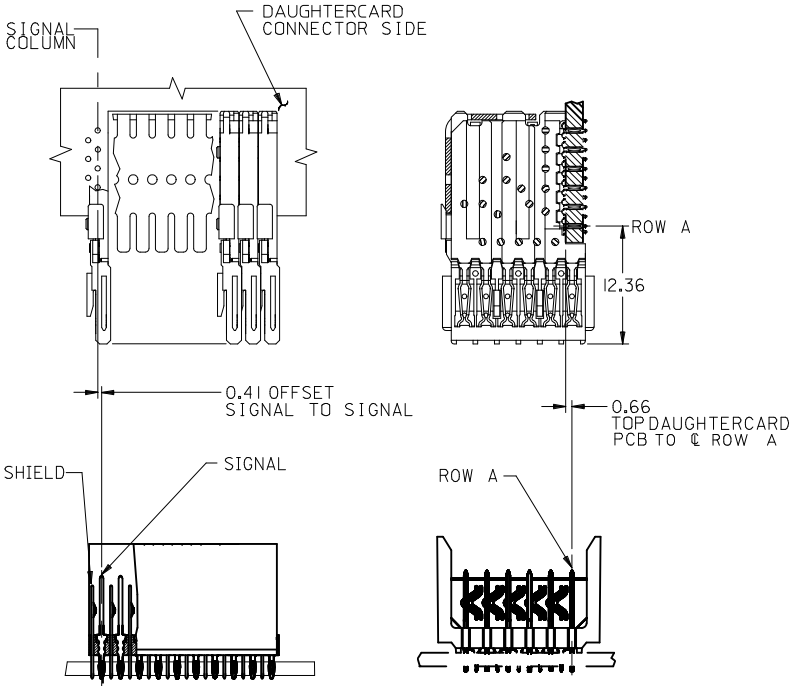
|             |     |             |                                                                                                                               |                                       |  |  |                 |              |                          |              |                        |  |           |        |
|-------------|-----|-------------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--|--|-----------------|--------------|--------------------------|--------------|------------------------|--|-----------|--------|
| SEE SHEET 2 | REV | DESCRIPTION | QUALITY SYMBOLS                                                                                                               | GENERAL TOLERANCES (UNLESS SPECIFIED) |  |  | DIMENSION STYLE |              | SCALE                    | DESIGN UNITS | THIRD ANGLE PROJECTION |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | MM ONLY         |              | 2:1                      | METRIC       |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | DRAWN BY        | DATE         | TITLE                    |              |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | JJONI AK        | 2008/07/09   | VHDM H-SERIES            |              |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | CHECKED BY      | DATE         | 6 ROW OPEN END BACKPLANE |              |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | JJONI AK        | 2008/07/09   |                          |              |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | APPROVED BY     | DATE         |                          |              |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | SMILLER         | 2010/03/09   | MOLEX MOLEX INCORPORATED |              |                        |  |           |        |
|             |     |             |                                                                                                                               |                                       |  |  | MATERIAL NO.    | DOCUMENT NO. |                          |              |                        |  | SHEET NO. |        |
|             |     |             |                                                                                                                               |                                       |  |  | SEE SHEET 2     |              | SD-76763-001             |              |                        |  |           | 1 OF 2 |
|             |     |             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                       |  |  |                 |              |                          |              |                        |  |           |        |

| PART NUMBER | COLUMN | NUMBER OF SIGNAL PIN | NUMBER OF SHIELD | A     | B     | M    | Au (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|
| 76763-1001  | 10     | 60                   | 10               | 20.00 | 18.00 | 4.75 | 0.76              |
| 76763-1006  |        |                      |                  |       |       |      | 1.27              |
| 76763-1501  | 15     | 90                   | 15               | 30.00 | 28.00 |      | 0.76              |
| 76763-1506  |        |                      |                  |       |       |      | 1.27              |
| 76763-2501  | 25     | 150                  | 25               | 50.00 | 48.00 |      | 0.76              |
| 76763-2506  |        |                      |                  |       |       |      | 1.27              |
| 76763-1002  | 10     | 60                   | 10               | 20.00 | 18.00 | 6.25 | 0.76              |
| 76763-1007  |        |                      |                  |       |       |      | 1.27              |
| 76763-1502  | 15     | 90                   | 15               | 30.00 | 28.00 |      | 0.76              |
| 76763-1507  |        |                      |                  |       |       |      | 1.27              |
| 76763-2502  | 25     | 150                  | 25               | 50.00 | 48.00 |      | 0.76              |
| 76763-2507  |        |                      |                  |       |       |      | 1.27              |
| 76763-1003  | 10     | 60                   | 10               | 20.00 | 18.00 | 4.25 | 0.76              |
| 76763-1008  |        |                      |                  |       |       |      | 1.27              |
| 76763-1503  | 15     | 90                   | 15               | 30.00 | 28.00 |      | 0.76              |
| 76763-1508  |        |                      |                  |       |       |      | 1.27              |
| 76763-2503  | 25     | 150                  | 25               | 50.00 | 48.00 |      | 0.76              |
| 76763-2508  |        |                      |                  |       |       |      | 1.27              |
| 76763-1004  | 10     | 60                   | 10               | 20.00 | 18.00 | 5.15 | 0.76              |
| 76763-1009  |        |                      |                  |       |       |      | 1.27              |
| 76763-1504  | 15     | 90                   | 15               | 30.00 | 28.00 |      | 0.76              |
| 76763-1509  |        |                      |                  |       |       |      | 1.27              |
| 76763-2504  | 25     | 150                  | 25               | 50.00 | 48.00 |      | 0.76              |
| 76763-2509  |        |                      |                  |       |       |      | 1.27              |

TIN/LEAD TABLE

| PART<br>NUMBER | COLUMN | NUMBER OF<br>SIGNAL PIN | NUMBER OF<br>SHIELD | A     | B     | M    | Au (um)<br>THICKNESS |
|----------------|--------|-------------------------|---------------------|-------|-------|------|----------------------|
| 76763-9001     | 10     | 60                      | 10                  | 20.00 | 18.00 | 4.75 | 0.76                 |
| 76763-9006     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9501     | 15     | 90                      | 15                  | 30.00 | 28.00 |      | 0.76                 |
| 76763-9506     |        |                         |                     |       |       |      | 1.27                 |
| 76763-8501     | 25     | 150                     | 25                  | 50.00 | 48.00 |      | 0.76                 |
| 76763-8506     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9002     | 10     | 60                      | 10                  | 20.00 | 18.00 | 6.25 | 0.76                 |
| 76763-9007     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9502     | 15     | 90                      | 15                  | 30.00 | 28.00 |      | 0.76                 |
| 76763-9507     |        |                         |                     |       |       |      | 1.27                 |
| 76763-8502     | 25     | 150                     | 25                  | 50.00 | 48.00 |      | 0.76                 |
| 76763-8507     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9003     | 10     | 60                      | 10                  | 20.00 | 18.00 | 4.25 | 0.76                 |
| 76763-9008     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9503     | 15     | 90                      | 15                  | 30.00 | 28.00 |      | 0.76                 |
| 76763-9508     |        |                         |                     |       |       |      | 1.27                 |
| 76763-8503     | 25     | 150                     | 25                  | 50.00 | 48.00 |      | 0.76                 |
| 76763-8508     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9004     | 10     | 60                      | 10                  | 20.00 | 18.00 | 5.15 | 0.76                 |
| 76763-9009     |        |                         |                     |       |       |      | 1.27                 |
| 76763-9504     | 15     | 90                      | 15                  | 30.00 | 28.00 |      | 0.76                 |
| 76763-9509     |        |                         |                     |       |       |      | 1.27                 |
| 76763-8504     | 25     | 150                     | 25                  | 50.00 | 48.00 |      | 0.76                 |
| 76763-8509     |        |                         |                     |       |       |      | 1.27                 |

LEAD FREE TABLE



MATERIAL NUMBER ASSIGNMENT

76763-\*\* \*\*SEE TABLES

NUMBER OF COLUMNS/PLATING  
10 = 10 COLUMN TIN/LEAD  
15 = 15 COLUMN TIN/LEAD  
25 = 25 COLUMN TIN/LEAD  
90 = 10 COLUMN MATTE TIN  
95 = 15 COLUMN MATTE TIN  
85 = 25 COLUMN MATTE TIN

|                                                                                                                                 |                                                            |                                                      |       |                                                                                                                               |                    |                                                    |                        |                        |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------|------------------------|------------------------|--|--|--|--|--|--|
| CORRECT P/Ns IN TABLES<br>EC NO: UCP2010-1510<br>DRWN: JONIAK 2010/03/05<br>CHKD: JMLTON 2010/03/09<br>APPR: SMILLER 2010/03/09 | REV<br>DESCRIPTION<br>QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |       | DIMENSION STYLE<br>MM ONLY                                                                                                    |                    | SCALE<br>1:1                                       | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | mm                                                   | INCH  | DRAWN BY<br>JONIAK                                                                                                            | DATE<br>2008/07/09 | TITLE<br>VHDM H-SERIES<br>6 ROW OPEN END BACKPLANE |                        |                        |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | 4 PLACES ± ---                                       | ± --- | CHECKED BY<br>JONIAK                                                                                                          | DATE<br>2008/07/09 |                                                    |                        |                        |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | 3 PLACES ± ---                                       | ± --- | APPROVED BY<br>SMILLER                                                                                                        | DATE<br>2010/03/09 |                                                    |                        |                        |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | 2 PLACES ± 0.15                                      | ± --- | MATERIAL NO.<br>SEE TABLES                                                                                                    |                    | DOCUMENT NO.<br>SD-76763-001                       |                        | SHEET NO.<br>2 OF 2    |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | 1 PLACE ± 0.25                                       | ± --- | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                    |                                                    |                        |                        |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | ANGULAR ± 1/2°                                       |       |                                                                                                                               |                    |                                                    |                        |                        |  |  |  |  |  |  |
|                                                                                                                                 |                                                            | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |       |                                                                                                                               |                    |                                                    |                        |                        |  |  |  |  |  |  |

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- 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.)

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«FORSTAR» (основан в 1998 г.)

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кабельные сборки и микроволновые компоненты:

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А