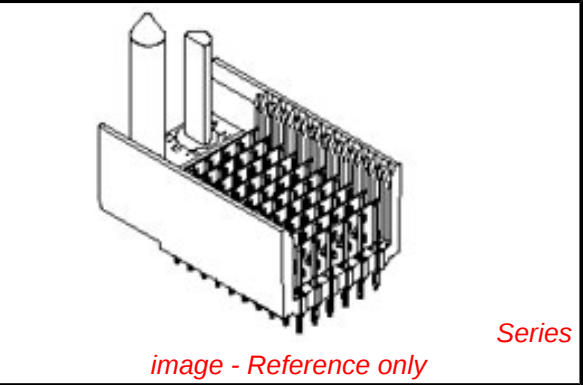


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**Part Number:** [0761359001](#)  
**Status:** **Active**  
**Overview:** [vhdm\\_h](#)  
**Description:** 2.00mm (.079") Pitch VHDM® H Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin, Signal End Module, Open End Version, 80 Circuits, Pin 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="#">76135</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)              | 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               | 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                 | 8                              |
| 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                 |

**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.

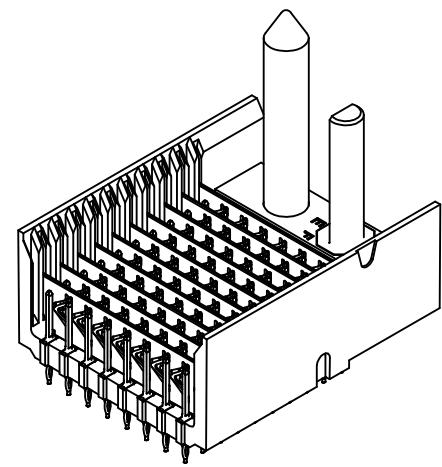
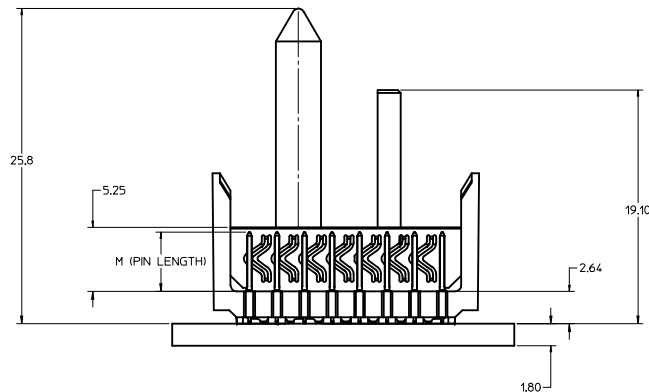
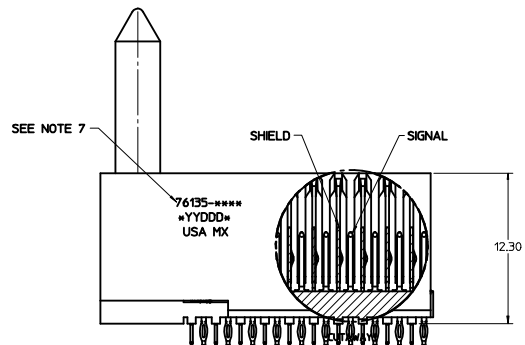
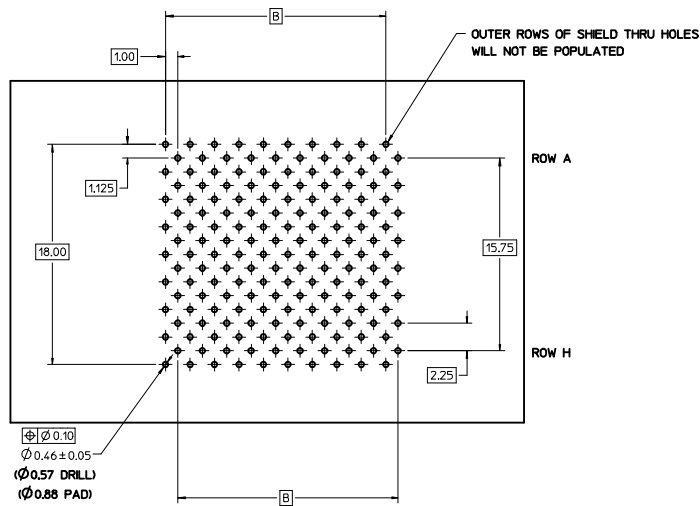
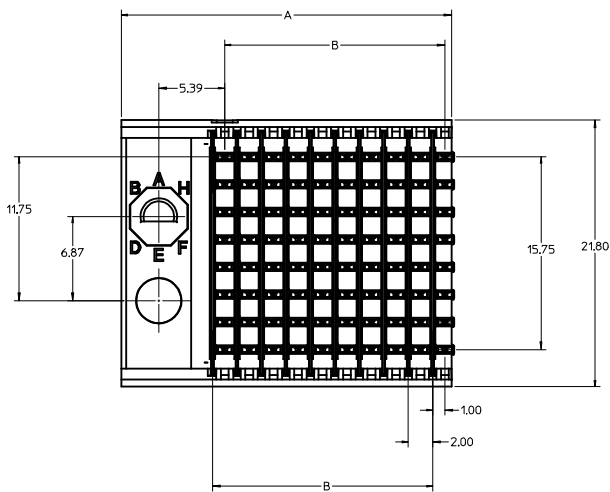
**Search Parts in this Series**  
[76135Series](#)

| Application Tooling   <a href="#">FAQ</a>                                                                                                                                              |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <i>Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.</i> |                            |
| <b>Global</b>                                                                                                                                                                          |                            |
| Description                                                                                                                                                                            | Product #                  |
| VHDM® Signal Pin                                                                                                                                                                       | <a href="#">0622015700</a> |
| Inserter Repair Tool                                                                                                                                                                   |                            |
| VHDM® 8 Row Pin                                                                                                                                                                        | <a href="#">0622015900</a> |
| and Shield Repair Tool                                                                                                                                                                 |                            |
| VHDM® 8 Row                                                                                                                                                                            | <a href="#">0622016100</a> |
| Shield Extraction Tool                                                                                                                                                                 |                            |
| VHDM® Insertion                                                                                                                                                                        | <a href="#">0622020209</a> |
| Module for Standard                                                                                                                                                                    |                            |
| Shield Signal Header, 8 Row by                                                                                                                                                         |                            |

|                                                                          |                              |                             |
|--------------------------------------------------------------------------|------------------------------|-----------------------------|
| Termination Interface: Style                                             | Through Hole - Compliant Pin | 10 Wide, 20.00mm<br>(.787") |
| <b>Electrical</b>                                                        |                              |                             |
| 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             |                             |
| <b>Material Info</b>                                                     |                              |                             |
| <b>Reference - Drawing Numbers</b>                                       |                              |                             |
| Packaging Specification                                                  | PK-74061-003                 |                             |
| Product Specification                                                    | PS-74031-999                 |                             |
| Sales Drawing                                                            | SD-76135-001                 |                             |
| VHDM and Very High Density Metric are trademarks of Amphenol Corporation |                              |                             |

This document was generated on 05/27/2010

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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-74061-003.**
  - 7. ASSEMBLY WILL BE MARKED WITH P/N AND DATE CODE WITH LASER MARK ON SIDE OF HOUSING OR BY LABEL ON THE TUBE.**

|                                                                                                                                     |                                      |                                                                                                                |                                                                                    |                                   |                              |                                                                       |                        |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------|------------------------------|-----------------------------------------------------------------------|------------------------|
| <b>INITIAL RELEASE</b><br>IEC NO: UCP2008-2748<br>DRAWN: JONIAK 2008/12/01<br>CHECKED: JONIAK 2008/12/02<br>APPR: JLAIRY 2008/12/03 | <b>QUALITY SYMBOLS</b><br>▽=0<br>▽=0 | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>                                                                   |                                                                                    | <b>DIMENSION STYLE</b><br>MM ONLY | SCALE<br>5:1                 | DESIGN UNITS<br>METRIC                                                | THIRD ANGLE PROJECTION |
|                                                                                                                                     |                                      | 4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± 0.15 ± ---<br>1 PLACE ± 0.25 ± ---<br>ANGULAR ±1/2° | mm    INCH<br>± ---    ± ---<br>± ---    ± ---<br>± ---    ± ---<br>± ---    ± --- | DRAWN BY<br>JONIAK                | DATE<br>2008/04/11           | TITLE<br>VHDM H-SERIES 8 ROW<br>SIGNAL END BACKPLANE<br>SALES DRAWING |                        |
|                                                                                                                                     |                                      | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                     |                                                                                    | APPROVED BY<br>BINGHAM            | DATE<br>2008/04/11           | MATERIAL NO.<br>SD-76135-001                                          |                        |
|                                                                                                                                     |                                      | SEE PAGE 2                                                                                                     |                                                                                    | MATERIAL NO.<br>SD-76135-001      | DOCUMENT NO.<br>SD-76135-001 | SHEET NO.<br>1 OF 2                                                   |                        |

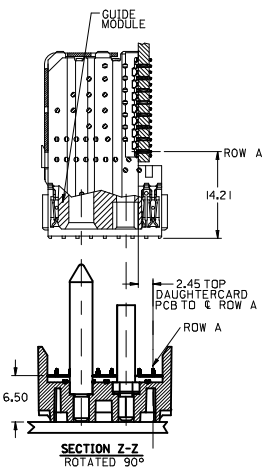
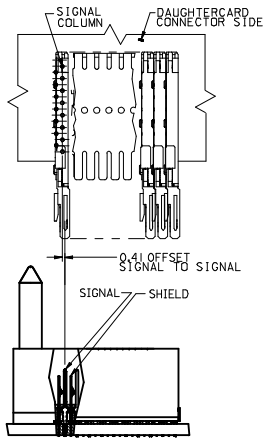
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

|                           |       |       |       |       |       |       |       |       |       |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| M/N<br>76135-( )          | ---0* | ---1* | ---2* | ---3* | ---4* | ---5* | ---6* | ---7* | ---8* |
| KEYING PIN<br>ORIENTATION |       |       |       |       |       |       |       |       |       |

76135 - \* \* \* \* \*

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 = 4.15  
2 & 8 = 6.25  
3 & 9 = 4.25  
4 & 9 = 5.15



| PART NUMBER | COLUMN | NUMBER OF SIGNAL | NUMBER OF PINSHIELD | A     | B     | M    | Au (um) THICKNESS | Sn (um) THICKNESS |
|-------------|--------|------------------|---------------------|-------|-------|------|-------------------|-------------------|
| 76135 -#0*1 | 10     | 80               | 10                  | 27.00 | 18.00 |      | 0.76              |                   |
| 76135 -#0*6 |        |                  |                     |       |       | 4.75 | 1.27              |                   |
| 76135 -#5*1 | 25     | 200              | 25                  | 57.00 | 48.00 |      | 0.76              |                   |
| 76135 -#5*6 |        |                  |                     |       |       |      | 1.27              |                   |
| 76135 -#0*2 | 10     | 80               | 10                  | 27.00 | 18.00 |      | 0.76              |                   |
| 76135 -#0*7 |        |                  |                     |       |       | 6.25 | 1.27              |                   |
| 76135 -#5*2 | 25     | 200              | 25                  | 57.00 | 48.00 |      | 0.76              |                   |
| 76135 -#5*7 |        |                  |                     |       |       |      | 1.27              |                   |
| 76135 -#0*3 | 10     | 80               | 10                  | 27.00 | 18.00 |      | 0.76              |                   |
| 76135 -#5*3 | 25     | 200              | 25                  | 57.00 | 48.00 |      | 1.27              |                   |
| 76135 -#5*8 |        |                  |                     |       |       | 4.25 | 0.76              |                   |
|             |        |                  |                     |       |       |      | 1.27              |                   |
| 76135 -#0*4 | 10     | 80               | 10                  | 27.00 | 18.00 |      | 0.76              |                   |
| 76135 -#0*9 |        |                  |                     |       |       | 5.15 | 1.27              |                   |
| 76135 -#5*4 | 25     | 200              | 25                  | 57.00 | 48.00 |      | 0.76              |                   |
| 76135 -#5*9 |        |                  |                     |       |       |      | 1.27              |                   |
| 76135 -#2*1 | 12     | 96               | 12                  | 31.00 | 22.00 |      | 0.76              |                   |
| 76135 -#2*6 |        |                  |                     |       |       | 4.75 | 1.27              |                   |
| 76135 -#2*2 | 12     | 96               | 12                  | 31.00 | 22.00 |      | 0.76              |                   |
| 76135 -#2*7 |        |                  |                     |       |       | 6.25 | 1.27              |                   |
| 76135 -#2*3 | 12     | 96               | 12                  | 31.00 | 22.00 |      | 0.76              |                   |
| 76135 -#2*8 |        |                  |                     |       |       | 4.25 | 1.27              |                   |
| 76135 -#2*4 | 12     | 96               | 12                  | 31.00 | 22.00 |      | 0.76              |                   |
| 76135 -#2*9 |        |                  |                     |       |       | 5.15 | 1.27              |                   |

0.76-1.52

|                                                                                          |                             |                                                            |  |                                                                                                                                  |  |                     |                                                                       |                        |
|------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|---------------------|-----------------------------------------------------------------------|------------------------|
| INITIAL RELEASE<br>EC NO: UCP2008-2748<br>DRAWN: JONI AK<br>CHKD: JONI AK<br>APPR: JAIJY | QUALITY SYMBOLS<br>=0<br>=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |  | DIMENSION STYLE<br>MM ONLY                                                                                                       |  | SCALE<br>1:1        | DESIGN UNITS<br>METRIC                                                | THIRD ANGLE PROJECTION |
|                                                                                          |                             |                                                            |  | DRAWN BY<br>JONI AK                                                                                                              |  | DATE<br>2008/04/11  | TITLE<br>VHDM H-SERIES 8 ROW<br>SIGNAL END BACKPLANE<br>SALES DRAWING |                        |
|                                                                                          |                             | 4 PLACES ± --- ± ---                                       |  | CHECKED BY<br>BINGHAM                                                                                                            |  | DATE<br>2008/04/11  | MOLEX INCORPORATED                                                    |                        |
|                                                                                          |                             | 3 PLACES ± --- ± ---                                       |  | APPROVED BY<br>BINGHAM                                                                                                           |  | DATE<br>2008/04/11  | MATERIAL NO.<br>SD-76135-001                                          |                        |
| 2 PLACES ± 0.15 ± ---                                                                    |                             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | SEE CHART                                                                                                                        |  | SHEET NO.<br>2 OF 2 |                                                                       |                        |
| 1 PLACE ± 0.25 ± ---                                                                     |                             |                                                            |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                     |                                                                       |                        |