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**Part Number:** [0740582503](#)  
**Status:** **Active**  
**Overview:** [vhdm](#)  
**Description:** 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 6-Row, Pin End Version, 150 Circuits, Pin Length 4.25mm (.167")

**Documents:**

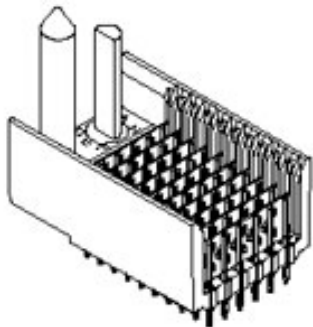
[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Drawing \(PDF\)](#)

**General**

|                               |                                                                                                       |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| Product Family                | Backplane Connectors                                                                                  |
| Series                        | <a href="#">74058</a>                                                                                 |
| Application                   | Backplane                                                                                             |
| Application Tooling Documents | <a href="http://www.molex.com/pdm_docs/ats/TM-622010999.pdf">TM-622010999.pdf</a> >Tooling Manual</a> |
| Comments                      | No Keying Position                                                                                    |
| Component Type                | PCB Header                                                                                            |
| Overview                      | <a href="#">vhdm</a>                                                                                  |
| Product Name                  | VHDM®                                                                                                 |
| Style                         | N/A                                                                                                   |

**Physical**

|                                |                                                                    |
|--------------------------------|--------------------------------------------------------------------|
| Circuits (Loaded)              | 150                                                                |
| Circuits (maximum)             | 150                                                                |
| 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),<br>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                 | 6                                                                  |
| 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) | 0.071 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                                                                 |
| Plating min: Termination (µm)  | 0.75                                                               |
| Polarized to PCB               | Yes                                                                |
| Stackable                      | No                                                                 |



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by  
Exemption**

**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**

[74058Series](#)

**Mates With**

[74030](#) 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® 6 Row Pin and Shield Repair Tool | <a href="#">0622015800</a> |

|                                                                          |                              |                                                                                             |                            |
|--------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------|----------------------------|
| Surface Mount Compatible (SMC)                                           | Yes                          | VHDM® 6 Row Shield Extraction Tool                                                          | <a href="#">0622016000</a> |
| Temperature Range - Operating                                            | 105°C                        | VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")   | <a href="#">0622020204</a> |
| Termination Interface: Style                                             | Through Hole - Compliant Pin | VHDM® Insertion Module for Standard Shield Signal Header, 6 Row by 25 Wide, 50.00mm (1.97") | <a href="#">0622020208</a> |
| <b>Electrical</b>                                                        |                              |                                                                                             |                            |
| Current - Maximum per Contact                                            | 1A                           |                                                                                             |                            |
| Data Rate                                                                | 3.125 Gbps                   |                                                                                             |                            |
| Real Signals (per 25mm)                                                  | 75                           |                                                                                             |                            |
| Shield Type                                                              | Ground Plane Shield          |                                                                                             |                            |
| Shielded                                                                 | Yes                          |                                                                                             |                            |
| Voltage - Maximum                                                        | 120V AC (RMS)/DC             |                                                                                             |                            |
| <b>Material Info</b>                                                     |                              |                                                                                             |                            |
| VHDM and Very High Density Metric are trademarks of Amphenol Corporation |                              |                                                                                             |                            |

This document was generated on 05/19/2010

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M/N  
74058-( )

-\*\*0\*

-\*\*1\*

-\*\*2\*

-\*\*3\*

-\*\*4\*

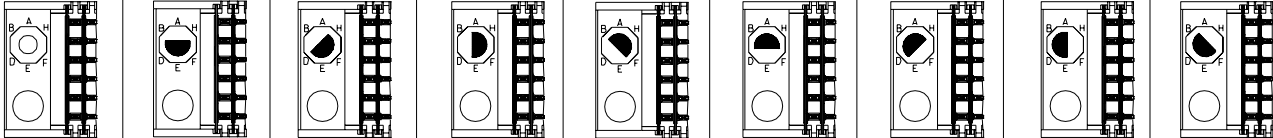
-\*\*5\*

-\*\*6\*

-\*\*7\*

-\*\*8\*

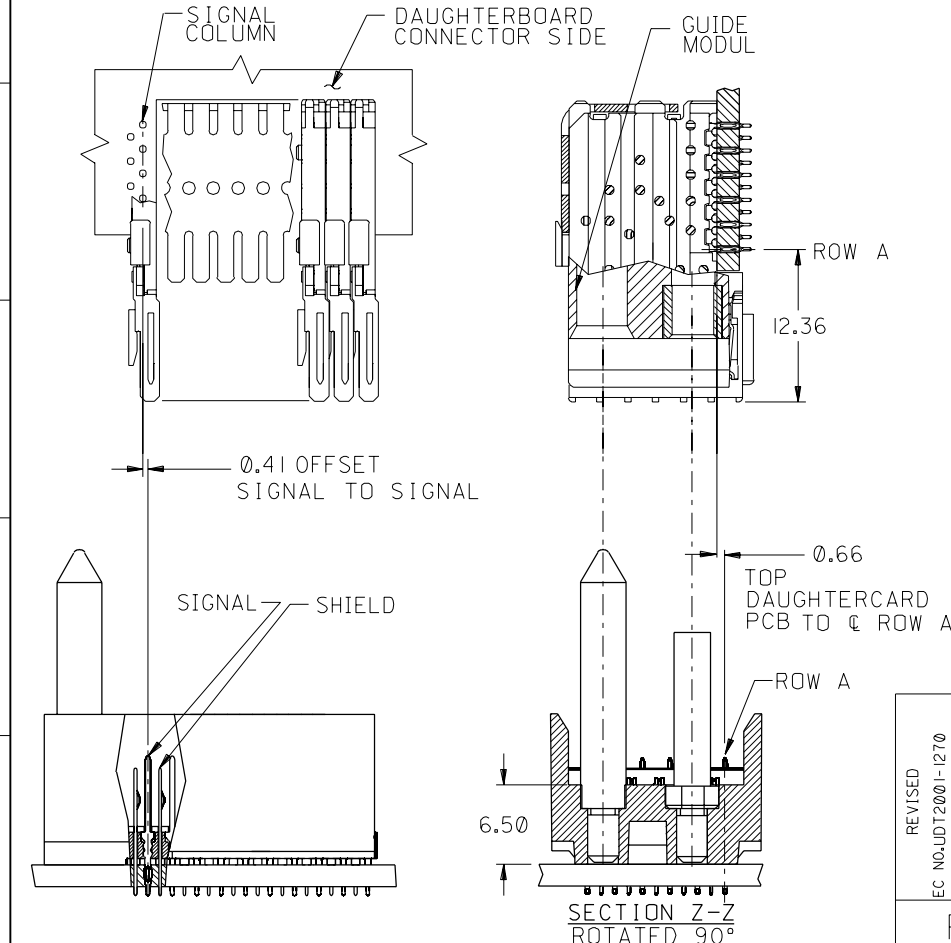
KEYING PIN  
ORIENTATION



74058 \* \* \* \*

NUMBER OF  
COLUMN  
10 OR 25

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 MAX | B     | M    | Au (um) THICKNESS | Sn/Ph (um) THICKNESS |
|-------------|--------|----------------------|------------------|-------|-------|------|-------------------|----------------------|
| 74058-10*1  | 10     | 60                   | 10               | 20.00 | 18.00 | 4.75 | 0.76              | 0.38-1.25            |
| 74058-10*6  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-25*1  | 25     | 150                  | 25               | 50.00 | 48.00 | 4.75 | 0.76              |                      |
| 74058-25*6  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-10*2  | 10     | 60                   | 10               | 20.00 | 18.00 | 6.25 | 0.76              |                      |
| 74058-10*7  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-25*2  | 25     | 150                  | 25               | 50.00 | 48.00 | 6.25 | 0.76              |                      |
| 74058-25*7  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-10*3  | 10     | 60                   | 10               | 20.00 | 18.00 | 4.25 | 0.76              |                      |
| 74058-10*8  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-25*3  | 25     | 150                  | 25               | 50.00 | 48.00 | 4.25 | 0.76              |                      |
| 74058-25*8  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-10*4  | 10     | 60                   | 10               | 20.00 | 18.00 | 5.15 | 0.76              |                      |
| 74058-10*9  |        |                      |                  |       |       |      | 1.25              |                      |
| 74058-25*4  | 25     | 150                  | 25               | 50.00 | 48.00 | 5.15 | 0.76              |                      |
| 74058-25*9  |        |                      |                  |       |       |      | 1.25              |                      |

REVISED  
EC NOLDT2001-1270  
DRWN:MWANG 01/05/10  
CHK:JLAURX 01/05/10  
APPR:CBIXLER 01/05/10

DESCRIPTION  
MAJOR  
CRITICAL

REV

QUALITY SYMBOLS

GENERAL TOLERANCES: (UNLESS SPECIFIED)

|          | mm     | INCH |
|----------|--------|------|
| 4 PLACES | ±0.--- | ±.   |
| 3 PLACES | ±0.--- | ±.   |
| 2 PLACES | ±0.--- | ±.   |
| 1 PLACE  | ±0.--- | ±.   |

ANGULAR: ± -- °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE  
2.5:1

DESIGN UNITS  
☒mm ☐INCH

DRAWN BY & DATE  
MWANG 11/09/98

CHECKED BY & DATE  
JLAURX 11/09/98

APPROVED BY & DATE  
CBIXLER 11/09/98

CAD FILENAME  
SD-74058-002-DGN

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

DIMENSIONS:  
☐mm ☐INCH ☒mm ONLY

SHT  
REVISE ON CAD ONLY

TITLE:  
VHDM BACKPLANE 6 ROW  
SIGNAL-PIN END SALES DRAWING

MOLEX MOLEX INCORPORATED

MATERIAL NO.  
SEE CHART

DRAWING NO.  
SD-74058-002

SHEET NO.  
2

SIZE  
B

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