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**Part Number:** [0736442205](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location A, Polarizing Key Position C, 72 Circuits

**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                                     |
|----------------|-------------------------------------|
| Product Family | Backplane Connectors                |
| Series         | <a href="#">73644</a>               |
| Application    | Backplane                           |
| Comments       | Standard Press-Fit, Tin/Lead (SnPb) |
| Component Type | PCB Header                          |
| Overview       | <a href="#">hdm</a>                 |
| Product Name   | HDM®                                |
| Style          | N/A                                 |

**Physical**

|                                |                                  |
|--------------------------------|----------------------------------|
| Circuits (Loaded)              | 72                               |
| Circuits (maximum)             | 72                               |
| Color - Resin                  | Black, Natural                   |
| Durability (mating cycles max) | 250                              |
| First Mate / Last Break        | No                               |
| Flammability                   | 94V-0                            |
| Guide to Mating Part           | Yes                              |
| Keying to Mating Part          | Yes                              |
| Material - Metal               | Phosphor Bronze, Stainless Steel |
| Material - Plating Mating      | Gold                             |
| Material - Plating Termination | Tin                              |
| Material - Resin               | High Temperature Thermoplastic   |
| Number of Columns              | 12                               |
| Number of Pairs                | Open Pin Field                   |
| Number of Rows                 | 6                                |
| Orientation                    | Vertical                         |
| PC Tail Length (in)            | 0.138 In                         |
| PC Tail Length (mm)            | 3.50 mm                          |
| PCB Locator                    | No                               |
| PCB Retention                  | Yes                              |
| PCB Thickness Recommended (in) | 0.098 In                         |
| PCB Thickness Recommended (mm) | 2.50 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) | 15                               |
| Plating min: Termination (µm)  | 0.375                            |
| Polarized to PCB               | No                               |



Series

image - Reference only

**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**  
[73644Series](#)

**Mates With**  
[73632](#) HDM PLUS® Board-to-Board Daughtercard Receptacle. [73780](#) HDM® 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> |
| HDM® Backplane Insertion Signal Contact Tool                                                                                                                                    | <a href="#">0621001400</a> |
| Extraction Tool                                                                                                                                                                 | <a href="#">0621001000</a> |

|                                |                              |
|--------------------------------|------------------------------|
| Stackable                      | No                           |
| 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 | 1A       |
| Data Rate                     | 1.0 Gbps |
| Real Signals (per 25mm)       | 75       |
| Shielded                      | No       |
| Voltage - Maximum             | 250V AC  |

**Material Info**

**Reference - Drawing Numbers**

|                         |                |
|-------------------------|----------------|
| Packaging Specification | PK-70873-0818  |
| Sales Drawing           | SDA-73644-**** |

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|                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------|
| 73644                                                                                                                                                                                                                                                                                                                                                                                                       | 4 | 3 | 2 | 73644 |
| <p>1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED,<br/>UL94V-0, COLOR: BLACK,<br/>TERMINAL - PHOSPHOR BRONZE.</p> <p>2. FINISHES: SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MINIMUM<br/>THICKNESS; NICKEL (Ni) AND GOLD FLASH OVERALL<br/>SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MIN.<br/>THICKNESS; SELECTIVE TIN/LEAD (Sb/Pb) IN TAIL AREA;<br/>NICKEL (Ni) OVERALL.</p> |   |   |   |       |



|                                                     |  |  |  |                     |                                                                   |                                                                                                               |                                                   |                                                                                                                                      |                           |                                                                                                                           |                     |
|-----------------------------------------------------|--|--|--|---------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------|
|                                                     |  |  |  | I                   | REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12                   | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR $\pm 1/2^\circ$           |                                                   | $\nabla = 0$ $\blacktriangledown = 0$                                                                                                |                           | REVISE ONLY ON CAD SYSTEM                                                                                                 |                     |
|                                                     |  |  |  | H                   | REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18                   | INCH      METRIC<br>3 PLACE $\pm$ N/A      ---<br>2 PLACE $\pm$ N/A $\pm 0.05$<br>1 PLACE      --- $\pm 0.10$ |                                                   | TITLE<br>SALES ASSY, HDM BACKPLANE<br>MODULE, POLAR/GUIDE OPTION                                                                     |                           |                                                                                                                           |                     |
| J<br>REVISED<br>ECR UCP2003-2260<br>THOMAS 03/04/25 |  |  |  | G                   | REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21                   | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                       |                                                   |  MOLEX INCORPORATED<br>LISLE, ILL. 60532 U.S.A. |                           | SHEET NO.<br>1 OF 2                                                                                                       | DATE<br>96/12/18    |
| LTR.      REVISIONS                                 |  |  |  | LTR.      REVISIONS | DRWG. BY JRR      CHK'D. BY SMR<br>APP'D. BY CAB      SCALE 2 : 1 |                                                                                                               | PART NO. SEE CHART      DRWG. NO. SDA-73644-***** |                                                                                                                                      | FILE NAME<br>S73644X1.DGN | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | DIV. DA      SIZE B |



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