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**Part Number:** [0736440000](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location B, Polarizing Key Position A, 72 Circuits

**Documents:**

|                                    |                                                      |
|------------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>           | <a href="#">Drawing (PDF)</a>                        |
| <a href="#">Test Summary (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

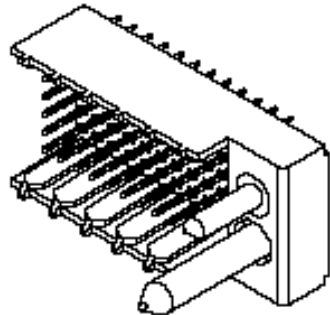
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                       |
|----------------|-----------------------|
| Product Family | Backplane Connectors  |
| Series         | <a href="#">73644</a> |
| Application    | Backplane             |
| Comments       | Standard Press-Fit    |
| 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 | Gold                             |
| 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) | 2                                |
| Plating min: Termination (µm)  | 0.05                             |



Series

image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**

**China RoHS**



**Not Reviewed**

**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 | <a href="#">0622013700</a> |
| Pneumatic Press       |                            |
| HDM® Backplane        | <a href="#">0621001400</a> |
| Insertion Signal      |                            |
| Contact Tool          |                            |
| Extraction Tool       | <a href="#">0621001000</a> |

|                                |                              |
|--------------------------------|------------------------------|
| Polarized to PCB               | No                           |
| 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-**** |

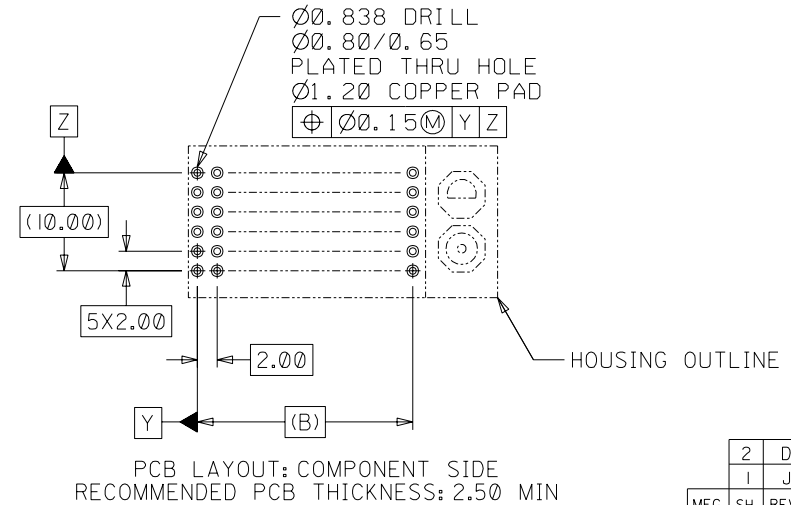
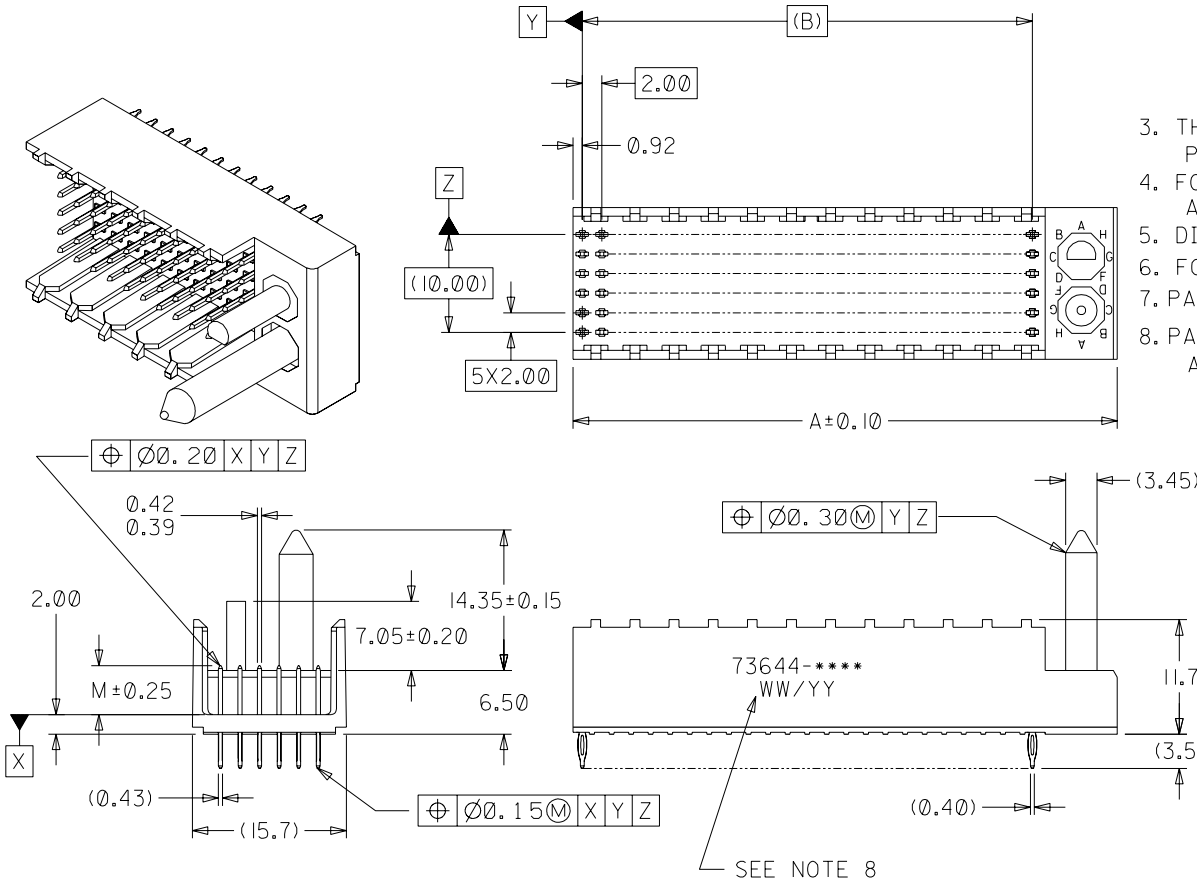
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**NOTES:**

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK, TERMINAL - PHOSPHOR BRONZE.
2. FINISHES: SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MINIMUM THICKNESS; NICKEL (Ni) AND GOLD FLASH OVERALL SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MIN. THICKNESS; SELECTIVE TIN/LEAD (Sb/Pb) IN TAIL AREA; NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73670-9999.
4. FOR MIXED CONTACT MATING LENGTHS, CONSULT FACTORY FOR AVAILABILITY.
5. DIMENSIONS ARE IN MILLIMETERS.
6. FOR SPECIFIC MATERIAL NUMBERS, REFER TO SHEET 2.
7. PACKAGE PER PK-70873-0818.
8. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.



SEE NOTE 8

|      |     |
|------|-----|
| 2    | D   |
| 1    | J   |
| MFG. | SH. |
| REV. |     |

REVISIONS: 2 = 0, 1 = 0, REVISE ONLY ON CAD SYSTEM

|                                        |  |                                                                                                                        |                  |
|----------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|------------------|
| TITLE                                  |  | SALES ASSY, HDM BACKPLANE<br>MODULE, POLAR/GUIDE OPTION                                                                |                  |
| MOLEX INCORPORATED<br>LITSE,ILL. 60532 |  | SHEET NO.<br>1 OF 2                                                                                                    | DATE<br>96/12/18 |
| PART NO.                               |  | SDA-73644-****                                                                                                         |                  |
| SEE CHART                              |  | DIV. DA                                                                                                                |                  |
| FILE NAME<br>S73644X1 DGN              |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                  |

|                                                          |              |
|----------------------------------------------------------|--------------|
| DIMENSIONS SHOWN (METRIC) INCH                           |              |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2° |              |
| 3 PLACE                                                  | ± N/A ---    |
| 2 PLACE                                                  | ± N/A ± 0.05 |
| 1 PLACE                                                  | --- ± 0.10   |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS  |              |
| DRWG.<br>BY                                              | JRR          |
| CHK'D.<br>BY                                             | SMR          |
| APP'D.<br>BY                                             | CAB          |
| SCALE                                                    | 2 : 1        |

|                                                 |  |           |
|-------------------------------------------------|--|-----------|
| REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12 |  | I         |
| REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18 |  | H         |
| REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21 |  | G         |
| REVISED<br>ECR UCP2003-2260<br>THOMAS 03/04/25  |  | J         |
| LTR.                                            |  | REVISIONS |



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