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**Part Number:** [0736443008](#)  
**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 E, 144 Circuits

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

Agency Certification

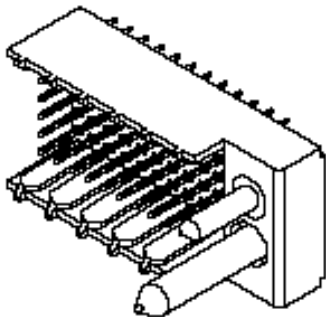
CSA LR19980  
UL E29179

General

Product Family Backplane Connectors  
Series [73644](#)  
Application Backplane  
Comments Standard Press-Fit, Tin/Lead (SnPb)  
Component Type PCB Header  
Overview [hdm](#)  
Product Name HDM®  
Style N/A

Physical

Circuits (Loaded) 144  
Circuits (maximum) 144  
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 24  
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**  
**Not 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**  
[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          |                            |
| HDM® Backplane        | <a href="#">0622005703</a> |
| Insertion Head for    |                            |
| 144 Positions         |                            |
| 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-**** |

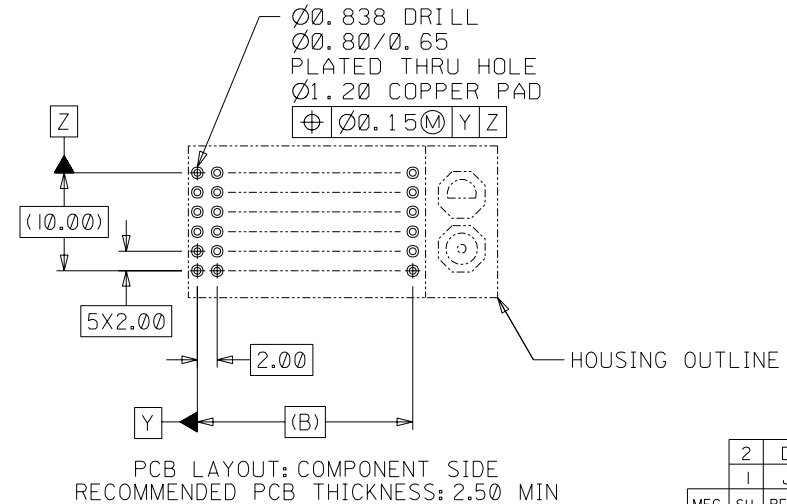
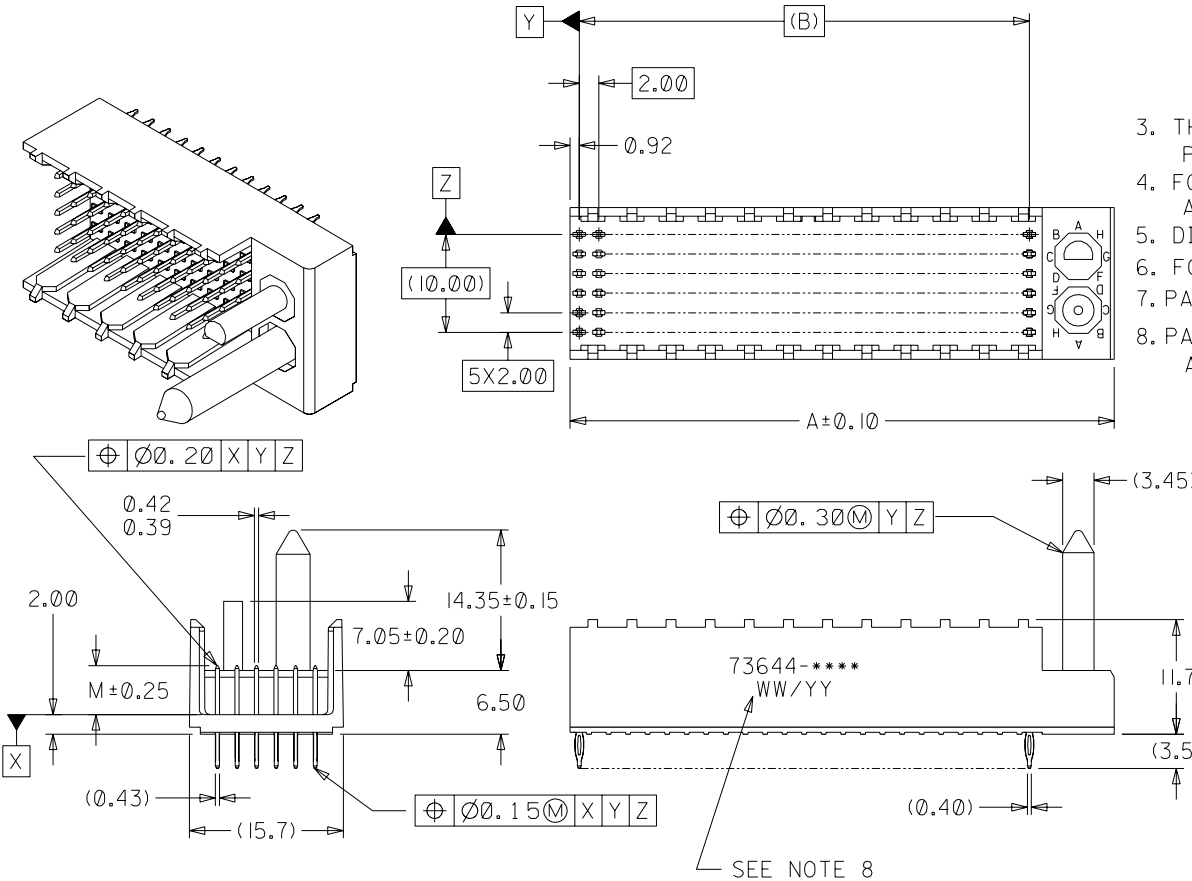
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# NOTES:

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.



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 2.50 MIN

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

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

| DIMENSIONS SHOWN (METRIC) INCH                           |       |              |        |
|----------------------------------------------------------|-------|--------------|--------|
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2° |       |              |        |
|                                                          |       | INCH         | METRIC |
| 3 PLACE                                                  | ± N/A | ---          | ---    |
| 2 PLACE                                                  | ± N/A | ± 0.05       | ± 0.05 |
| 1 PLACE                                                  | ---   | ± 0.10       | ± 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  |

|                                                                                                                               |  |                                                                                                                           |  |                           |                   |
|-------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------|-------------------|
|  = 0                                     |  |  = 0                                 |  | REVISE ONLY ON CAD SYSTEM |                   |
| TITLE                                                                                                                         |  |                                                                                                                           |  |                           |                   |
| SALES ASSY, HDM BACKPLANE<br>MODULE, POLAR/GUIDE OPTION                                                                       |  |                                                                                                                           |  |                           |                   |
|  MOLEX INCORPORATED<br>LISLE, ILL. 60532 |  | SHEET NO.<br>1 OF 2                                                                                                       |  | DATE<br>96/12/18          |                   |
| PART NO.                                                                                                                      |  | DRWG. NO.                                                                                                                 |  |                           |                   |
| SEE CHART                                                                                                                     |  | SDA-73644-*****                                                                                                           |  |                           |                   |
| FILE NAME<br>S73644X1                                                                                                         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |  |                           | DIV. SIZE<br>DA B |





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Электрон  
Связь**

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