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Part Number:

0736440012

Status:

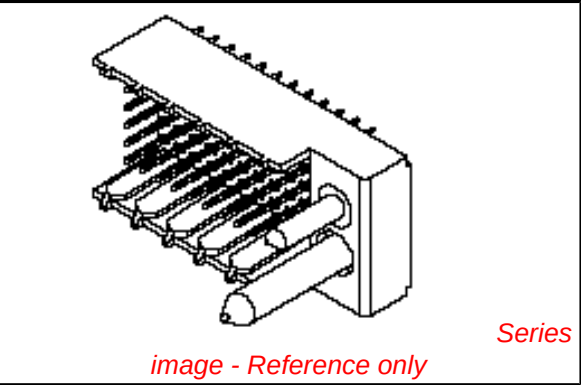
Active

Overview:

[hdm](#)

Description:

2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location B, Polarizing Key Position G, 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               |
| 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                             |
| Polarized to PCB               | No                               |

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

[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-**** |

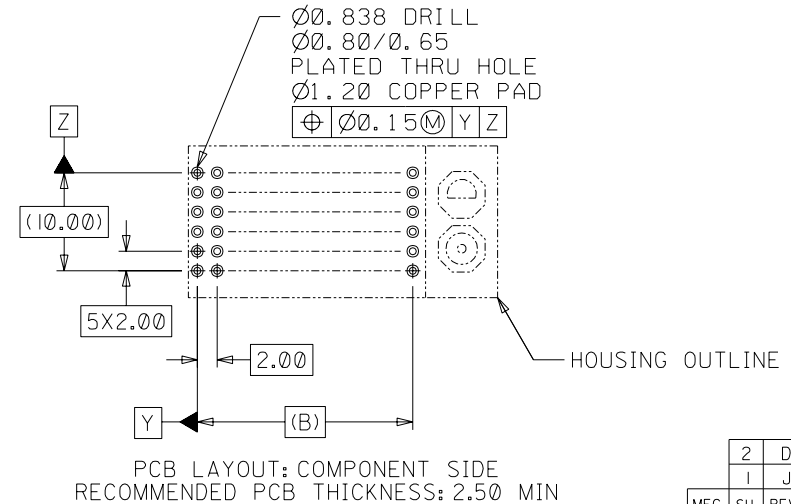
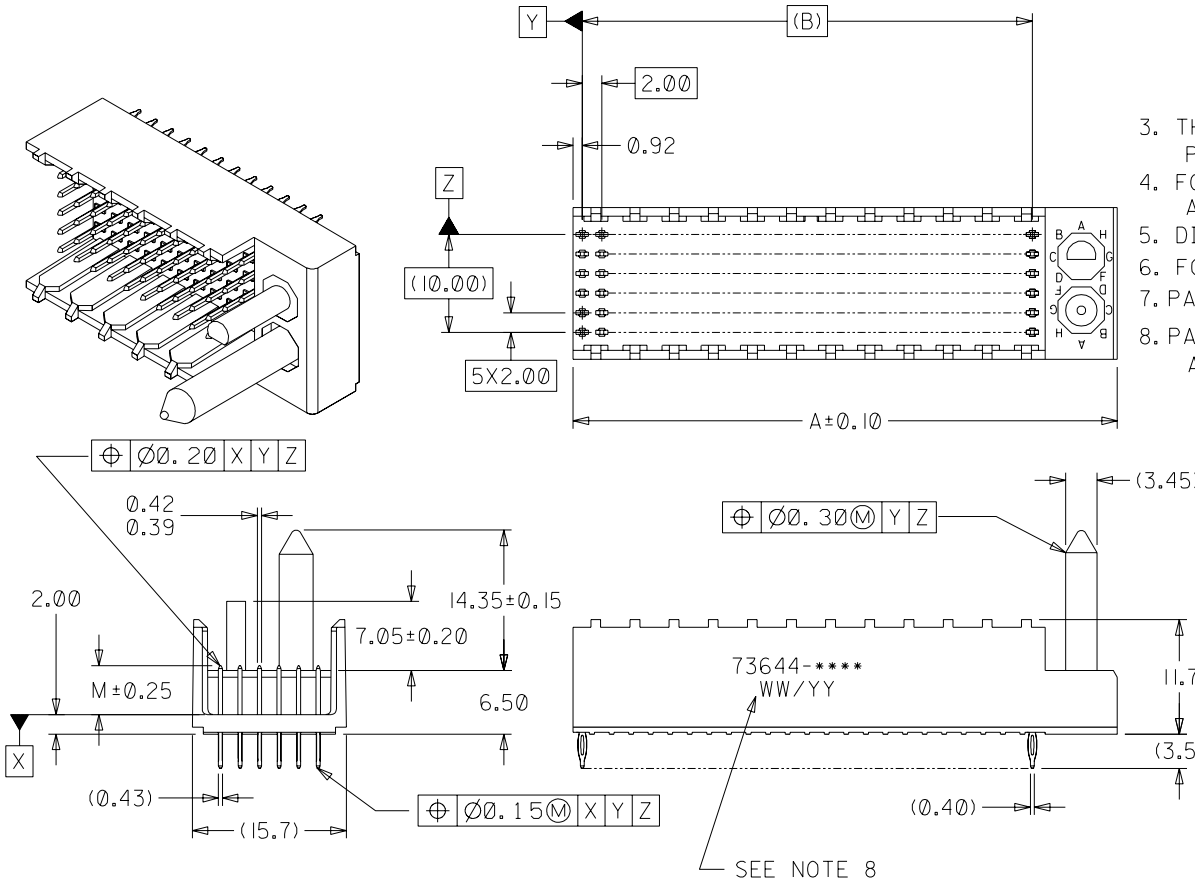
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# NOTES:

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° |                   |
| 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      |

|                                                                                                                               |  |                                                                                                                           |  |                           |            |
|-------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|---------------------------|------------|
|  = 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.<br>SEE CHART                                                                                                         |  | DRWG. NO.<br>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.<br>DA |
|                                                                                                                               |  |                                                                                                                           |  |                           | SIZE<br>R  |

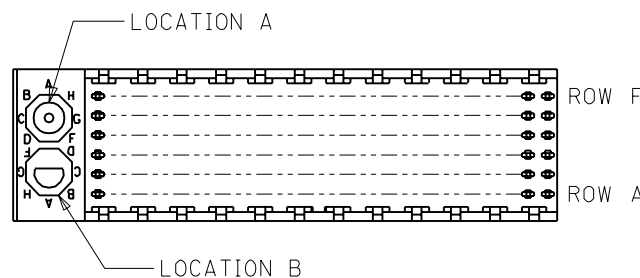
| 10 |                    | 9                            | 8                                 | 7 | 6       |         | 7364    |
|----|--------------------|------------------------------|-----------------------------------|---|---------|---------|---------|
|    | MATERIAL<br>NUMBER | NUMBER OF<br>SIGNAL CONTACTS | PLATING                           |   | DIM "A" | DIM "B" | DIM "M" |
| F  | 73644-00**         | 72                           | SELECTIVE GOLD/GOLD FLASH         |   | 31.60   | 22.00   | 5.00    |
|    | 73644-01**         | 72                           | SELECTIVE GOLD/GOLD FLASH         |   | 31.60   | 22.00   | 5.50    |
|    | 73644-02**         | 72                           | SELECTIVE GOLD/GOLD FLASH         |   | 31.60   | 22.00   | 6.00    |
|    | 73644-10**         | 144                          | SELECTIVE GOLD/GOLD FLASH         |   | 55.60   | 46.00   | 5.00    |
|    | 73644-11**         | 144                          | SELECTIVE GOLD/GOLD FLASH         |   | 55.60   | 46.00   | 5.50    |
|    | 73644-12**         | 144                          | SELECTIVE GOLD/GOLD FLASH         |   | 55.60   | 46.00   | 6.00    |
| E  | 73644-20**         | 72                           | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 31.60   | 22.00   | 5.00    |
|    | 73644-21**         | 72                           | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 31.60   | 22.00   | 5.50    |
|    | 73644-22**         | 72                           | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 31.60   | 22.00   | 6.00    |
|    | 73644-30**         | 144                          | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 55.60   | 46.00   | 5.00    |
|    | 73644-31**         | 144                          | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 55.60   | 46.00   | 5.50    |
|    | 73644-32**         | 144                          | SELECTIVE GOLD/SELECTIVE TIN-LEAD |   | 55.60   | 46.00   | 6.00    |

## MATERIAL NUMBER ASSIGNMENT

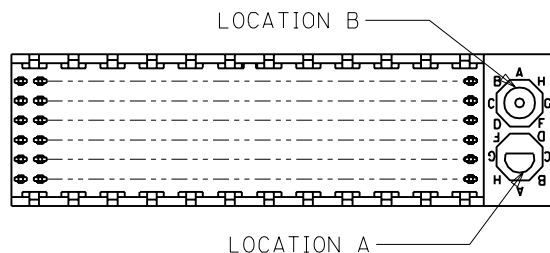
73644- \* \* \* \*

0 = 72-CIRCUIT, GOLD/GOLD FLASH  
1 = 144-CIRCUIT, GOLD/GOLD FLASH  
2 = 72-CIRCUIT, GOLD/TIN-LEAD  
3 = 144-CIRCUIT, GOLD/TIN-LEAD

```
0 = 5.00 MATING LENGTH
1 = 5.50 MATING LENGTH
2 = 6.00 MATING LENGTH
```



REF. MATERIAL NUMBER 73644-0009  
GUIDE PIN IS IN LOCATION A  
POLARIZING KEY IS IN LOCATION B, POSITION F



REF. MATERIAL NUMBER 73644-0008  
GUIDE PIN IS IN LOCATION B  
POLARIZING KEY IS IN LOCATION A, POSITION E

| NUMBER | GUIDE POST LOCATION | POLAR KEY POSITION |
|--------|---------------------|--------------------|
| 00     | B                   | A                  |
| 01     | A                   |                    |
| 02     | B                   | B                  |
| 03     | A                   |                    |
| 04     | B                   | C                  |
| 05     | A                   |                    |
| 06     | B                   | D                  |
| 07     | A                   |                    |
| 08     | B                   | E                  |
| 09     | A                   |                    |
| 10     | B                   | F                  |
| 11     | A                   |                    |
| 12     | B                   | G                  |
| 13     | A                   |                    |
| 14     | B                   | H                  |
| 15     | A                   |                    |
| 16     | B                   | N/A                |
| 17     | A                   |                    |
| 18     | N/A                 |                    |

[illegible]

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

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