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**Part Number:** [0736440216](#)  
**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 N/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**

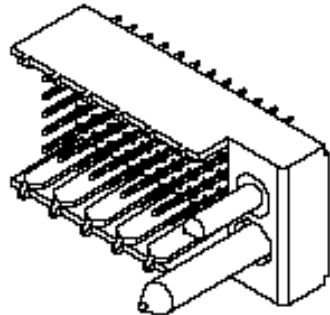
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**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          | None                             |
| 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**



**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-**** |

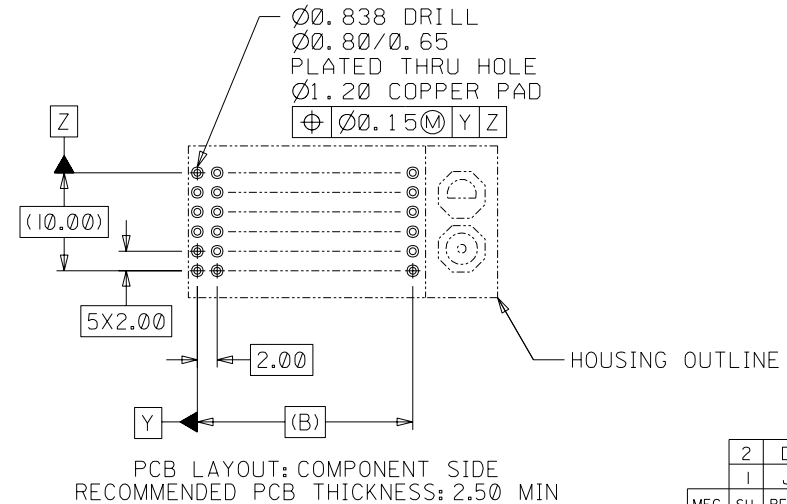
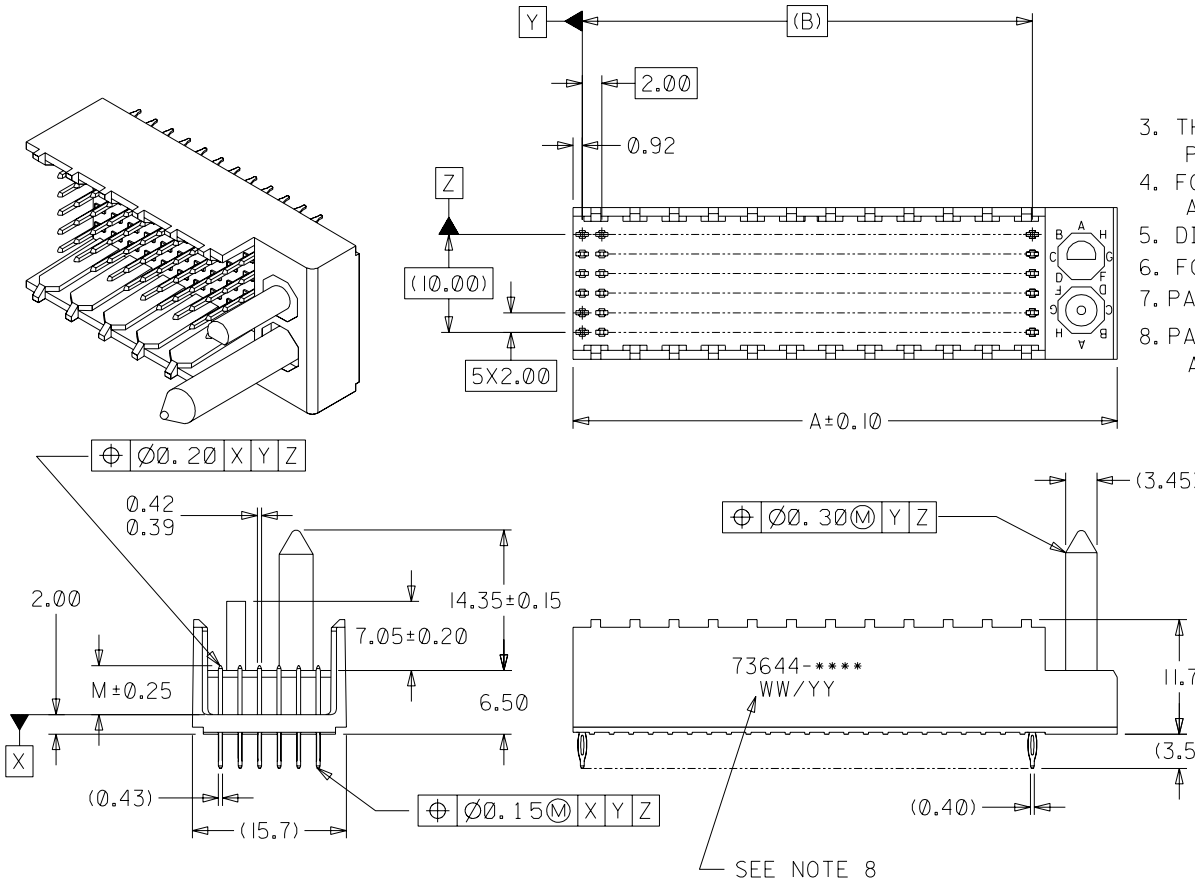
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# NOTES:

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.



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

PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 2.50 MIN

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED  
TOLERANCES: ANGULAR ± 1/2°

|         | INCH  | METRIC |
|---------|-------|--------|
| 3 PLACE | ± N/A | ---    |
| 2 PLACE | ± N/A | ± 0.05 |
| 1 PLACE | ---   | ± 0.10 |

DRAFT WHERE APPLICABLE MUST  
REMAIN WITHIN DIMENSIONS

|              |     |              |       |
|--------------|-----|--------------|-------|
| DRWG.<br>BY  | JRR | CHK'D.<br>BY | SMR   |
| APP'D.<br>BY | CAB | SCALE        | 2 : 1 |

REVISIONS ONLY ON CAD SYSTEM

TITLE

SALES ASSY, HDM BACKPLANE  
MODULE, POLAR/GUIDE OPTION

MOLEX INCORPORATED  
LISLE, ILL. 60532  
SHEET NO. 1 OF 2  
DATE 96/12/18

PART NO. SEE CHART  
SDA-73644-\*\*\*\*

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

DIV. DA  
SIZE B

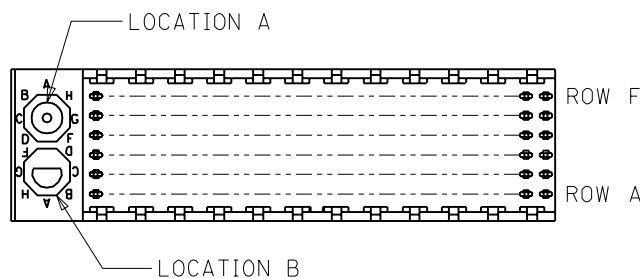
| 10 |                    | 9                            | 8                                 | 7 | 6       |         | 7364    |
|----|--------------------|------------------------------|-----------------------------------|---|---------|---------|---------|
|    | MATERIAL<br>NUMBER | NUMBER OF<br>SIGNAL 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

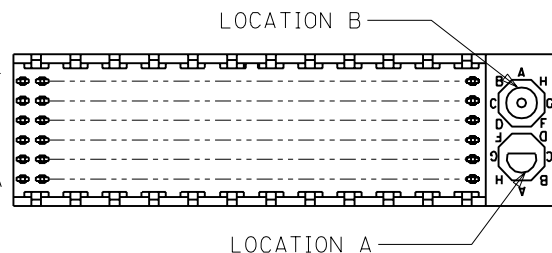
73644- \* \* \* \*

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]



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Экспресс доставка в любую точку России;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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