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**Part Number:** [0736420100](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, Press-Fit, Open End, 72 Circuits

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-73670-9999 \(PDF\)](#)

**Agency Certification**

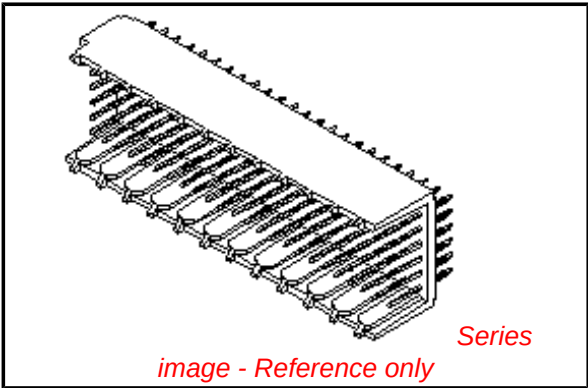
CSA LR19980  
UL E29179

**General**

Product Family Backplane Connectors  
Series [73642](#)  
Application Backplane  
Comments Standard Press-Fit  
Component Type PCB Header  
Overview [hdm](#)  
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 No  
Keying to Mating Part None  
Material - Metal Phosphor Bronze  
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



**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**  
[73642Series](#)

**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                      | Yes                          |
| 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  |
| Product Specification   | PS-73670-9999  |
| Sales Drawing           | SDA-73642-**** |

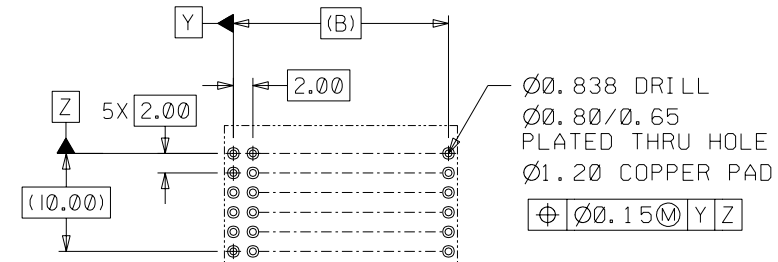
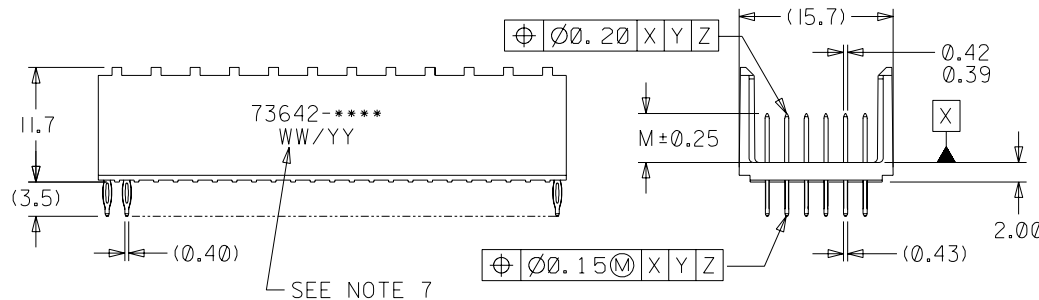
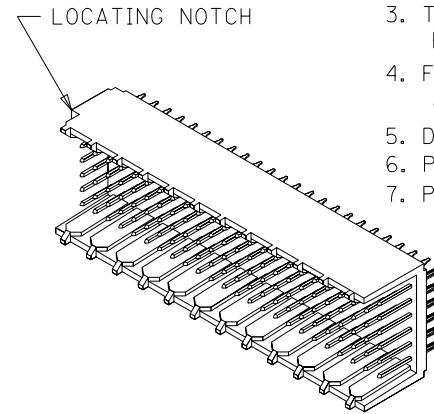
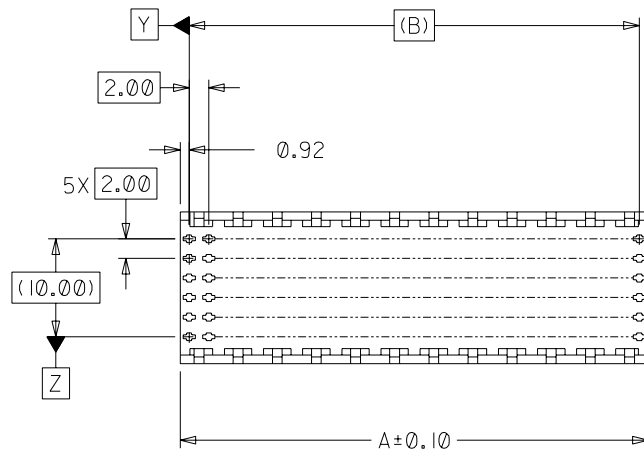
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This document was generated on 05/14/2010

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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 MINIMUM THICKNESS; SELECTIVE TIN/LEAD (Sn/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. PACKAGE PER PK-70873-0818.
7. 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  | C   |
| I  | I   |
| SH | REV |

|      |                                                 |      |                                                 |      |                                                           |
|------|-------------------------------------------------|------|-------------------------------------------------|------|-----------------------------------------------------------|
| I    | REVISED<br>ECR UCP2003-2260<br>THOMAS 03/04/25  | F    | REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21 | C    | REVISED<br>PER ECR *U81357<br>BINGHAM 97/12/15            |
| H    | REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12 | E    | REVISED<br>ECR UDT1999-0243<br>BINGHAM 98/09/29 | B    | REVISED<br>PER ECR *U70950<br>BINGHAM 97/02/14            |
| G    | REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18 | D    | REVISED<br>ECR UDT1998-0240<br>BINGHAM 98/05/06 | A    | RELEASED FOR PROD.<br>PER ECR *U70371<br>BINGHAM 96/12/18 |
| LTR. | REVISIONS                                       | LTR. | REVISIONS                                       | LTR. | REVISIONS                                                 |

| DIMENSIONS SHOWN (METRIC) INCH                           |        |
|----------------------------------------------------------|--------|
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2° |        |
| 3 PLACE                                                  | ± N/A  |
| 2 PLACE                                                  | ± N/A  |
| 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<br>SALES ASSY, HDM BACKPLANE<br>MODULE, OPEN END OPTION |  |                                                                                                                           |                  |
| MOLEX INCORPORATED<br>LITSE,ILL.      60532      U.S.A.       |  | SHEET NO.<br>1 OF 2                                                                                                       | DATE<br>96/12/18 |
| PART NO.<br>SEE SHEET 2                                       |  | DRWG. NO.<br>SDA-73642-****                                                                                               |                  |
| FILE NAME<br>S73642X1                                         |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                  |
| DIV.<br>DA                                                    |  | SIZE<br>B                                                                                                                 |                  |

|   |    |   |   |   |   |   |   |   |   |   |       |
|---|----|---|---|---|---|---|---|---|---|---|-------|
|   | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 73642 |
| F |    |   |   |   |   |   |   |   |   |   |       |
| E |    |   |   |   |   |   |   |   |   |   |       |
| D |    |   |   |   |   |   |   |   |   |   |       |
| C |    |   |   |   |   |   |   |   |   |   |       |
| B |    |   |   |   |   |   |   |   |   |   |       |
| A |    |   |   |   |   |   |   |   |   |   |       |

| MATERIAL NUMBER | NUMBER OF SIGNAL CONTACTS | PLATING                           | DIM "A" | DIM "B" | DIM "M" |
|-----------------|---------------------------|-----------------------------------|---------|---------|---------|
| 73642-0000      | 72                        | SELECTIVE GOLD/GOLD FLASH         | 23.84   | 22.00   | 5.00    |
| 73642-0100      | 72                        | SELECTIVE GOLD/GOLD FLASH         | 23.84   | 22.00   | 5.50    |
| 73642-0200      | 72                        | SELECTIVE GOLD/GOLD FLASH         | 23.84   | 22.00   | 6.00    |
| 73642-1000      | 144                       | SELECTIVE GOLD/GOLD FLASH         | 47.84   | 46.00   | 5.00    |
| 73642-1100      | 144                       | SELECTIVE GOLD/GOLD FLASH         | 47.84   | 46.00   | 5.50    |
| 73642-1200      | 144                       | SELECTIVE GOLD/GOLD FLASH         | 47.84   | 46.00   | 6.00    |
| 73642-2000      | 72                        | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 23.84   | 22.00   | 5.00    |
| 73642-2100      | 72                        | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 23.84   | 22.00   | 5.50    |
| 73642-2200      | 72                        | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 23.84   | 22.00   | 6.00    |
| 73642-3000      | 144                       | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 47.84   | 46.00   | 5.00    |
| 73642-3100      | 144                       | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 47.84   | 46.00   | 5.50    |
| 73642-3200      | 144                       | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 47.84   | 46.00   | 6.00    |

|      |           |      |             |
|------|-----------|------|-------------|
|      |           |      |             |
|      |           |      |             |
|      |           | C    | SEE SHEET I |
| LTR. | REVISIONS | LTR. | REVISIONS   |

|                                                       |       |           |       |
|-------------------------------------------------------|-------|-----------|-------|
| 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. BY                                              | JRR   | CHK'D. BY | SMR   |
| APP'D. BY                                             | CAB   | SCALE     | NO*NE |

|                                                                                   |  |                                                                                                                           |                  |
|-----------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|------------------|
| <div>▽ = 0</div> <div>▽ = 0</div>                                                 |  | REVISE ONLY ON CAD SYSTEM                                                                                                 |                  |
| TITLE                                                                             |  |                                                                                                                           |                  |
| SALES ASSY, HDM BACKPLANE<br>MODULE, OPEN END OPTION                              |  |                                                                                                                           |                  |
| <div>molex</div> <div>MOLEX INCORPORATED</div> <div>LISLE,ILL. 60532 U.S.A.</div> |  | SHEET NO.<br>2                                                                                                            | DATE<br>97/12/15 |
| PART NO.<br>SEE CHART                                                             |  | DRWG. NO.<br>SDA-73642-*****                                                                                              |                  |
| FILE NAME<br>S73642X2<br>DGN                                                      |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                  |
|                                                                                   |  | DIV.<br>DA                                                                                                                | SIZE<br>B        |

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Мы предлагаем:

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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