

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0736433000](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, Press-Fit, Closed End, 144 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**

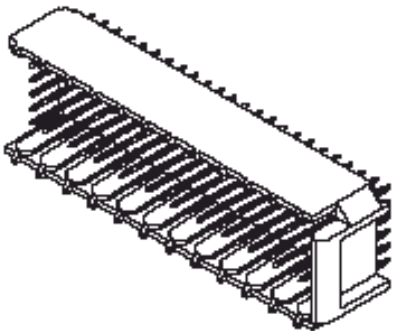
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                       |
|----------------|-----------------------|
| Product Family | Backplane Connectors  |
| Series         | <a href="#">73643</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)              | 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           | No                             |
| Keying to Mating Part          | None                           |
| Material - Metal               | Phosphor Bronze                |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin-Lead                       |
| 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                  | None                           |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 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                          |



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**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**

[73643Series](#)

**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         |                            |

|                                |                              |
|--------------------------------|------------------------------|
| 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 |

|                 |            |
|-----------------|------------|
| Extraction Tool | 0621001000 |
|-----------------|------------|

**Electrical**

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 1A       |
| Data Rate                     | 1.0 Gbps |
| Real Signals (per 25mm)       | 75       |
| Voltage - Maximum             | 250V AC  |

**Material Info**

**Reference - Drawing Numbers**

|                         |                |
|-------------------------|----------------|
| Packaging Specification | PK-70873-0818  |
| Sales Drawing           | SDA-73643-**** |

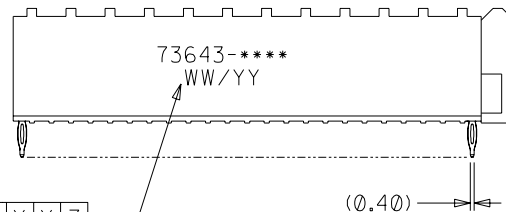
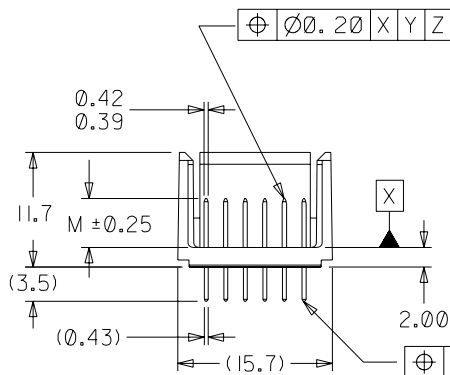
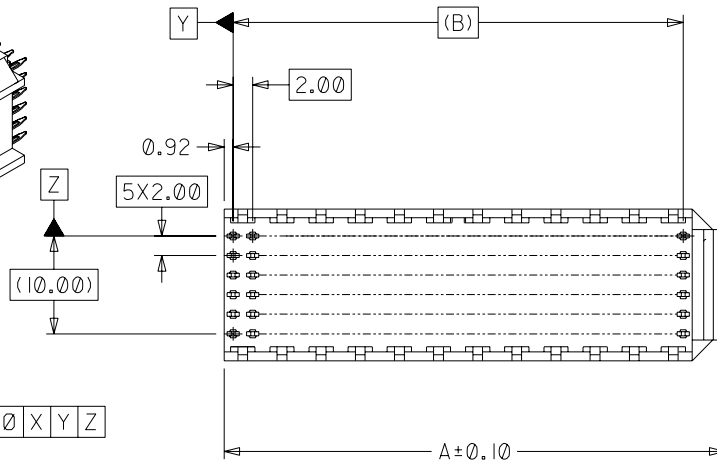
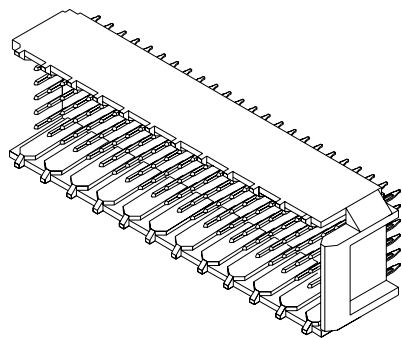
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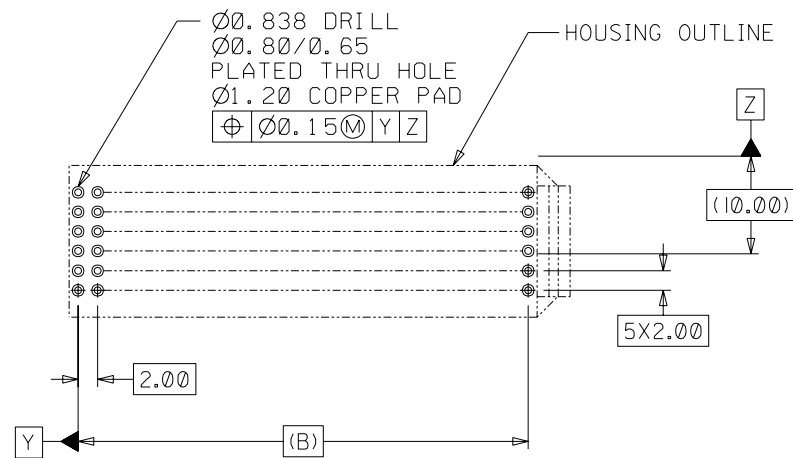
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# NOTES:

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.



SEE NOTE 7



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                                                  | ---   |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS  |       |
| DRWG. BY                                                 | JRR   |
| CHK'D. BY                                                | SMR   |
| APP'D. BY                                                | CAB   |
| SCALE                                                    | 2 : 1 |

|                                        |                                                                                                                           |                                                      |                   |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------|
| ▽ = 0                                  | ▼ = 0                                                                                                                     | REVISE ONLY ON CAD SYSTEM                            |                   |
| TITLE                                  |                                                                                                                           | SALES ASSY, HDM BACKPLANE<br>MODULE, END WALL OPTION |                   |
| MOLEX INCORPORATED<br>LITSE,ILL. 60532 |                                                                                                                           | SHEET NO.<br>1 OF 2                                  | DATE<br>96/12/18  |
| PART NO.<br>SEE SHEET 2                |                                                                                                                           | DRWG. NO.<br>SDA-73643-****                          |                   |
| FILE NAME<br>S73643X1<br>DGN           | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                                                      | DIV. SIZE<br>DA B |

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

| MATERIAL NUMBER | NUMBER OF SIGNAL CONTACTS | PLATING                           | DIM "A" | DIM "B" | DIM "M" |
|-----------------|---------------------------|-----------------------------------|---------|---------|---------|
| 73643-0000      | 72                        | SELECTIVE GOLD/GOLD FLASH         | 27.60   | 22.00   | 5.00    |
| 73643-0100      | 72                        | SELECTIVE GOLD/GOLD FLASH         | 27.60   | 22.00   | 5.50    |
| 73643-0200      | 72                        | SELECTIVE GOLD/GOLD FLASH         | 27.60   | 22.00   | 6.00    |
| 73643-1000      | 144                       | SELECTIVE GOLD/GOLD FLASH         | 51.60   | 46.00   | 5.00    |
| 73643-1100      | 144                       | SELECTIVE GOLD/GOLD FLASH         | 51.60   | 46.00   | 5.50    |
| 73643-1200      | 144                       | SELECTIVE GOLD/GOLD FLASH         | 51.60   | 46.00   | 6.00    |
| 73643-2000      | 72                        | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 27.60   | 22.00   | 5.00    |
| 73643-2100      | 72                        | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 27.60   | 22.00   | 5.50    |
| 73643-2200      | 72                        | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 27.60   | 22.00   | 6.00    |
| 73643-3000      | 144                       | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 51.60   | 46.00   | 5.00    |
| 73643-3100      | 144                       | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 51.60   | 46.00   | 5.50    |
| 73643-3200      | 144                       | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 51.60   | 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, END WALL OPTION                       |  |                                                                                                                                   |                                     |
| <div>molex</div> <div>MOLEX INCORPORATED</div> <div>LISLE,ILL. 60532</div> |  | <div>SHEET NO.</div> <div>2</div>                                                                                                 | <div>DATE</div> <div>97/12/15</div> |
| <div>PART NO.</div> <div>SEE CHART</div>                                   |  | <div>DRWG. NO.</div> <div>SDA-73643-*****</div>                                                                                   |                                     |
| <div>FILE NAME</div> <div>S73643X2.DGN</div>                               |  | <div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.</div> |                                     |
|                                                                            |  | <div>DIV.</div> <div>DA</div>                                                                                                     | <div>SIZE</div> <div>B</div>        |

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- Регистрацию проекта у производителя компонентов.
- 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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