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**Part Number:** [0736442200](#)  
**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 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**

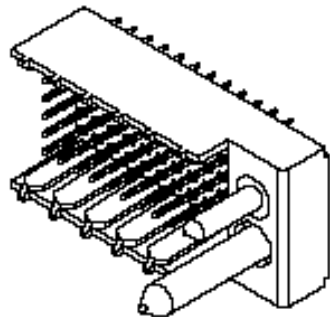
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                                     |
|----------------|-------------------------------------|
| Product Family | Backplane Connectors                |
| Series         | <a href="#">73644</a>               |
| Application    | Backplane                           |
| Comments       | Standard Press-Fit, Tin/Lead (SnPb) |
| 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 | Tin                              |
| 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) | 15                               |
| Plating min: Termination (µm)  | 0.375                            |



Series

image - Reference only

**EU RoHS**

**RoHS Compliant by Exemption**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**Halogen-Free**

**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> |

|                                |                              |
|--------------------------------|------------------------------|
| 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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|                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------|
| 73644                                                                                                                                                                                                                                                                                                                                                                               | 4 | 3 | 2 | 73644 |
| <p>1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK, TERMINAL - PHOSPHOR BRONZE.</p> <p>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.</p> |   |   |   |       |

**NOTES:**

F

E

D

C

B

10

9

8

7

6

5

4

3

2

1

0

Y

(B)

2.00

0.92

Z

(10.00)

5X2.00

A±0.10

⊕ ∅0.20 X Y Z

0.42  
0.39

2.00

M±0.25

14.35±0.15

7.05±0.20

6.50

X

(0.43)

(15.7)

⊕ ∅0.15 M X Y Z

⊕ ∅0.30 M Y Z

73644-\*\*\*\*  
WW/YY

(0.40)

SEE NOTE 8

| A       |                                                |        |        |                                                 | I | REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12                                                                                       | DIMENSIONS SHOWN (IMPERIAL) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2°                                                                                                                                                                                                 |                                                                                                                        | ▽ = 0      ▼ = 0      REVISE ONLY ON CAD SYSTEM |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
|---------|------------------------------------------------|--------|--------|-------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------|--------|---------|-------|-----|---------|-------|--------|---------|-----|--------|------------------------------------------------------------------|--|
|         |                                                |        |        |                                                 | H | REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18                                                                                       | <table border="1"> <thead> <tr> <th></th> <th>INCH</th> <th>METRIC</th> </tr> </thead> <tbody> <tr> <td>3 PLACE</td> <td>± N/A</td> <td>---</td> </tr> <tr> <td>2 PLACE</td> <td>± N/A</td> <td>± 0.05</td> </tr> <tr> <td>1 PLACE</td> <td>---</td> <td>± 0.10</td> </tr> </tbody> </table> |                                                                                                                        |                                                 | INCH    | METRIC | 3 PLACE | ± N/A | --- | 2 PLACE | ± N/A | ± 0.05 | 1 PLACE | --- | ± 0.10 | TITLE<br>SALES ASSY, HDM BACKPLANE<br>MODULE, POLAR/GUIDE OPTION |  |
|         |                                                | INCH   | METRIC |                                                 |   |                                                                                                                                       |                                                                                                                                                                                                                                                                                              |                                                                                                                        |                                                 |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
|         | 3 PLACE                                        | ± N/A  | ---    |                                                 |   |                                                                                                                                       |                                                                                                                                                                                                                                                                                              |                                                                                                                        |                                                 |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
|         | 2 PLACE                                        | ± N/A  | ± 0.05 |                                                 |   |                                                                                                                                       |                                                                                                                                                                                                                                                                                              |                                                                                                                        |                                                 |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
| 1 PLACE | ---                                            | ± 0.10 |        |                                                 |   |                                                                                                                                       |                                                                                                                                                                                                                                                                                              |                                                                                                                        |                                                 |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
| J       | REVISED<br>ECR UCP2003-2260<br>THOMAS 03/04/25 |        | G      | REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21 |   |  MOLEX INCORPORATED<br>LITTLE, ILL. 60532 U.S.A. |                                                                                                                                                                                                                                                                                              | SHEET NO.<br>1 OF 2                                                                                                    | DATE<br>96/12/18                                |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
| LTR.    | REVISIONS                                      |        | LTR.   | REVISIONS                                       |   | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY JRR CHK'D. SMR<br>APP'D. CAB SCALE 2 : 1                          |                                                                                                                                                                                                                                                                                              | PART NO. SEE CHART<br>DRWG. NO. SDA-73644-*****                                                                        |                                                 |         |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
| 10      |                                                | 9      | 8      | 7                                               | 6 | 5                                                                                                                                     | 4                                                                                                                                                                                                                                                                                            | 3                                                                                                                      | 2                                               | 1       |        |         |       |     |         |       |        |         |     |        |                                                                  |  |
|         |                                                |        |        |                                                 |   |                                                                                                                                       |                                                                                                                                                                                                                                                                                              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                                                 | DIV. DA | SIZE B |         |       |     |         |       |        |         |     |        |                                                                  |  |

|                                                                                                                                                                                                                                                                                           |           |            |                                                                                                                                      |  |                                                                                                                        |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|---------|-----------|-----|---------|-----------|------------|---------|-----|------------|---------------------------------------------------------|--|--|--|
| DIMENSIONS SHOWN (METRIC/INCH)                                                                                                                                                                                                                                                            |           |            | $\nabla = 0$ $\blacktriangledown = 0$                                                                                                |  | REVISE ONLY ON CAD SYSTEM                                                                                              |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR $\pm 1/2^\circ$                                                                                                                                                                                                                         |           |            | TITLE                                                                                                                                |  |                                                                                                                        |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
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| INCH                                                                                                                                                                                                                                                                                      |           | METRIC     |                                                                                                                                      |  |                                                                                                                        |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| 3 PLACE                                                                                                                                                                                                                                                                                   | $\pm N/A$ | ---        |                                                                                                                                      |  |                                                                                                                        |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| 2 PLACE                                                                                                                                                                                                                                                                                   | $\pm N/A$ | $\pm 0.05$ |                                                                                                                                      |  |                                                                                                                        |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| 1 PLACE                                                                                                                                                                                                                                                                                   | ---       | $\pm 0.10$ |                                                                                                                                      |  |                                                                                                                        |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                                                                                                                                                                                                   |           |            |  MOLEX INCORPORATED<br>LISLE, ILL. 60532 U.S.A. |  | SHEET NO. 1 OF 2    DATE 96/12/18                                                                                      |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| DRWG. JRR    CHK'D. BY SMR                                                                                                                                                                                                                                                                |           |            | PART NO. SEE CHART                                                                                                                   |  | DRWG. NO. SDA-73644-****                                                                                               |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
| APP'D. CAB    SCALE 2 : 1                                                                                                                                                                                                                                                                 |           |            | FILE NAME S73644X1.DGN                                                                                                               |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |
|                                                                                                                                                                                                                                                                                           |           |            |                                                                                                                                      |  | DIV. DA    SIZE B                                                                                                      |         |           |     |         |           |            |         |     |            |                                                         |  |  |  |

