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Part Number:

0736442018

Status:

Active

Overview:

[hdm](#)

Description:

2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location N/A, Polarizing Key Position N/A, 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, 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           | No                               |
| Keying to Mating Part          | None                             |
| 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                            |
| Polarized to PCB               | No                               |



image - Reference only

Series

EU RoHS

Not 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 | <a href="#">0622013700</a> |
| Pneumatic Press       |                            |
| HDM® Backplane        | <a href="#">0621001400</a> |
| Insertion Signal      |                            |
| Contact Tool          |                            |
| 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.



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

REVISIONS: 2 = 0, 1 = 0, REVISE ONLY ON CAD SYSTEM

|                                        |  |                                                                                                                           |                  |
|----------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|------------------|
| TITLE                                  |  | SALES ASSY, HDM BACKPLANE<br>MODULE, POLAR/GUIDE OPTION                                                                   |                  |
| MOLEX INCORPORATED<br>LITSE,ILL. 60532 |  | SHEET NO.<br>1 OF 2                                                                                                       | DATE<br>96/12/18 |
| PART NO.                               |  | SEE CHART<br>SDA-73644-****                                                                                               |                  |
| FILE NAME<br>S73644X1<br>DGN           |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                  |
| DIV. DA                                |  | SIZE B                                                                                                                    |                  |

|                                                          |                  |
|----------------------------------------------------------|------------------|
| 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<br>2 : 1   |

|                                                 |  |                |
|-------------------------------------------------|--|----------------|
| REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12 |  | I              |
| REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18 |  | H              |
| REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21 |  | G              |
| REVISED<br>ECR UDT2003-2260<br>THOMAS 03/04/25  |  | J              |
| LTR. REVISIONS                                  |  | LTR. REVISIONS |



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