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Part Number:

0736441107

Status:

Active

Overview:

[hdm](#)

Description:

2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location A, Polarizing Key Position D, 144 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               |
| 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           | Yes                              |
| Keying to Mating Part          | Yes                              |
| Material - Metal               | Phosphor Bronze, Stainless Steel |
| Material - Plating Mating      | Gold                             |
| Material - Plating Termination | Gold                             |
| 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                  | 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                             |
| Polarized to PCB               | No                               |

EU RoHS

China RoHS

Compliance Status

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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> |
| HDM® Backplane Insertion Head for 144 Positions | <a href="#">0622005703</a> |

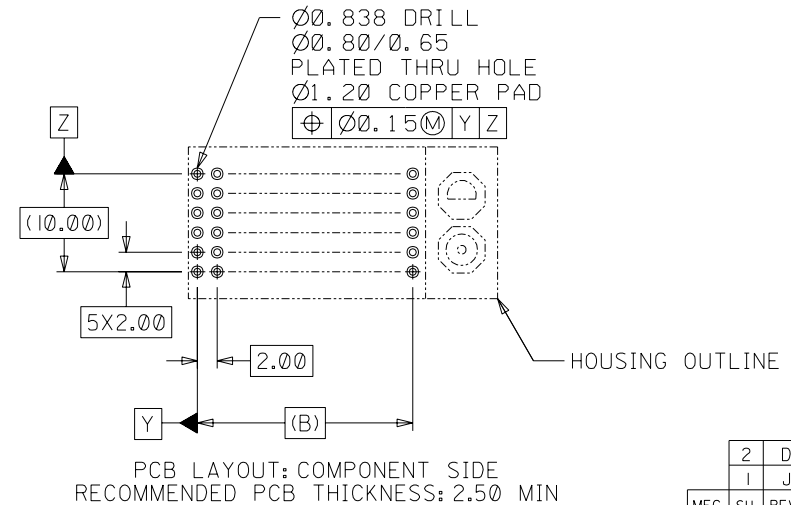
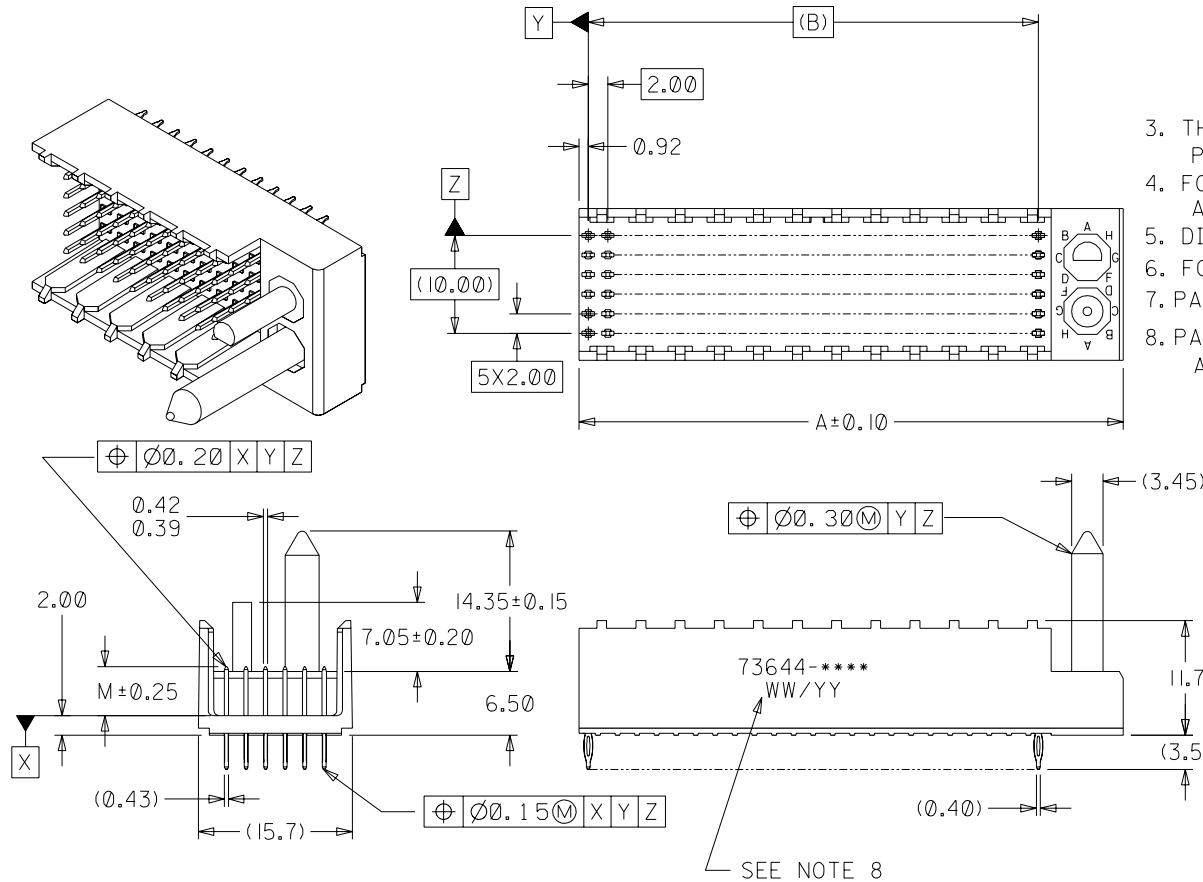
|                                                                    |                              |                 |            |
|--------------------------------------------------------------------|------------------------------|-----------------|------------|
| Stackable                                                          | No                           | Extraction Tool | 0621001000 |
| Surface Mount Compatible (SMC)                                     | Yes                          |                 |            |
| Temperature Range - Operating                                      | -55°C to +105°C              |                 |            |
| Termination Interface: Style                                       | Through Hole - Compliant Pin |                 |            |
| <b>Electrical</b>                                                  |                              |                 |            |
| Current - Maximum per Contact                                      | 1A                           |                 |            |
| Data Rate                                                          | 1.0 Gbps                     |                 |            |
| Real Signals (per 25mm)                                            | 75                           |                 |            |
| Shielded                                                           | No                           |                 |            |
| Voltage - Maximum                                                  | 250V AC                      |                 |            |
| <b>Material Info</b>                                               |                              |                 |            |
| <b>Reference - Drawing Numbers</b>                                 |                              |                 |            |
| Packaging Specification                                            | PK-70873-0818                |                 |            |
| Sales Drawing                                                      | SDA-73644-****               |                 |            |
| HDM and High Density Metric are trademarks of Amphenol Corporation |                              |                 |            |

This document was generated on 05/14/2010

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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> |   |   |   |       |

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. |

|      |                                                |      |                                                 |
|------|------------------------------------------------|------|-------------------------------------------------|
|      |                                                | I    | REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12 |
|      |                                                | H    | REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18 |
| J    | REVISED<br>ECR UCP2003-2260<br>THOMAS 03/04/25 | G    | REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21 |
| LTR. | REVISIONS                                      | LTR. | REVISIONS                                       |

|                                                          |               |        |        |
|----------------------------------------------------------|---------------|--------|--------|
| DIMENSIONS SHOWN (METRIC) INCH                           |               |        |        |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2° |               |        |        |
|                                                          | INCH          |        | METRIC |
| 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. BY SML |        |        |
| APP'D. BY CAB                                            | SCALE 2 :     |        |        |

|                                                                                                                                                                                     |                                                                                                                           |                           |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|
|  = 0  = 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.                                                                                                                                                                            |                                                                                                                           | DRWG. NO.                 |                  |
| SEE CHART                                                                                                                                                                           |                                                                                                                           | SDA-73644-****            |                  |
| FILE NAME<br>S73644X1                                                                                                                                                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO<br>MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                           | DIV.<br>DA       |
|                                                                                                                                                                                     |                                                                                                                           |                           | SIZE<br>R        |



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