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Part Number:

0736441009

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 E, 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                               |



image - Reference only

Series

**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**  
[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 |                              |                 |            |

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|                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-------|
| 73644                                                                                                                                                                                                                                                                                                                                                                                                       | 4 | 3 | 2 | 73644 |
| <p>1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED,<br/>UL94V-0, COLOR: BLACK,<br/>TERMINAL - PHOSPHOR BRONZE.</p> <p>2. FINISHES: SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MINIMUM<br/>THICKNESS; NICKEL (Ni) AND GOLD FLASH OVERALL<br/>SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MIN.<br/>THICKNESS; SELECTIVE TIN/LEAD (Sb/Pb) IN TAIL AREA;<br/>NICKEL (Ni) OVERALL.</p> |   |   |   |       |



|                                                     |  |  |  |                |                                                         |                                                                                                     |                                              |                                                                                     |                                                                                                                                                              |  |
|-----------------------------------------------------|--|--|--|----------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                     |  |  |  | I              | REVISED<br>ECR UDT2000-0348<br>BINGHAM 99/10/12         | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR $\pm 1/2^\circ$ |                                              | $\nabla = 0$ $\blacktriangledown = 0$ REVISE ONLY ON CAD SYSTEM                     |                                                                                                                                                              |  |
|                                                     |  |  |  | H              | REVISED<br>ECR UDT1999-0662<br>BINGHAM 99/05/18         | INCH METRIC<br>3 PLACE $\pm$ N/A ---<br>2 PLACE $\pm$ N/A $\pm 0.05$<br>1 PLACE --- $\pm 0.10$      |                                              | TITLE<br>SALES ASSY, HDM BACKPLANE<br>MODULE, POLAR/GUIDE OPTION                    |                                                                                                                                                              |  |
| J<br>REVISED<br>ECR UCP2003-2260<br>THOMAS 03/04/25 |  |  |  | G              | REVISED<br>ECR UDT1999-0476<br>BINGHAM 98/12/21         | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                             |                                              | MOLEX MOLEX INCORPORATED SHEET NO. DATE<br>LISLE, ILL. 60532 U.S.A. 1 OF 2 96/12/18 |                                                                                                                                                              |  |
| LTR. REVISIONS                                      |  |  |  | LTR. REVISIONS | DRWG. BY JRR CHK'D. BY SMR<br>APP'D. BY CAB SCALE 2 : 1 |                                                                                                     | PART NO. SEE CHART DRWG. NO. SDA-73644-***** |                                                                                     | 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 |  |



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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)