

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0739427100

Status:

Active

Overview:

[hdm](#)

Description:

2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, Solder Tail, Open End, 144 Circuits

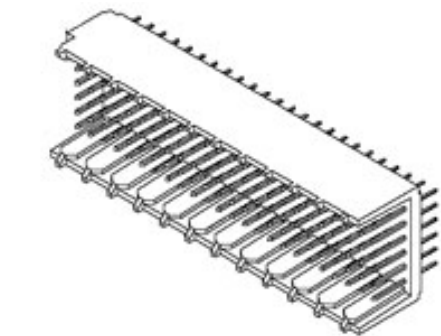


image - Reference only

Series

Documents:

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Backplane Connectors

Series

[73942](#)

Application

Backplane

Component Type

PCB Header

Overview

[hdm](#)

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

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)

0.098 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)

100

Plating min: Termination (µm)

2.5

Polarized to PCB

No

Stackable

No

EU RoHS

**ELV and RoHS  
Compliant**  
**REACH SVHC  
Not Reviewed**  
**Halogen-Free  
Status**

China RoHS



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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

[73942Series](#)

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 #                  |
|------------------|----------------------------|
| HDM® Backplane   | <a href="#">0621001400</a> |
| Insertion Signal |                            |
| Contact Tool     |                            |
| Extraction Tool  | <a href="#">0621001000</a> |

|                                |                 |
|--------------------------------|-----------------|
| Surface Mount Compatible (SMC) | Yes             |
| Temperature Range - Operating  | -55°C to +105°C |
| Termination Interface: Style   | Through Hole    |

**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**

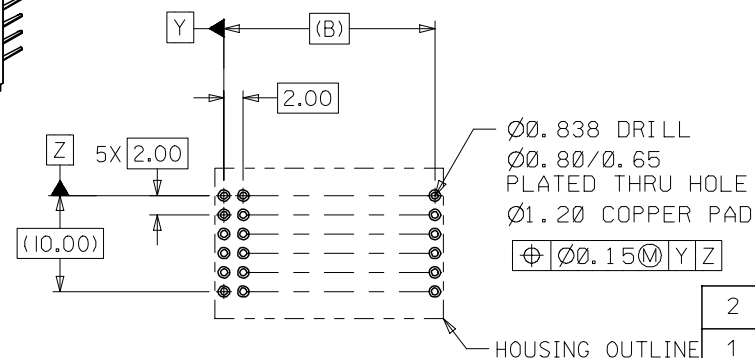
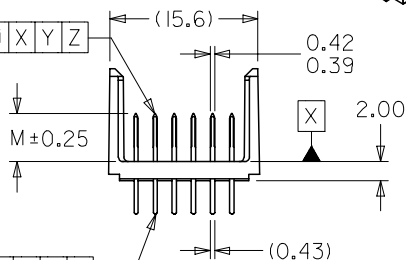
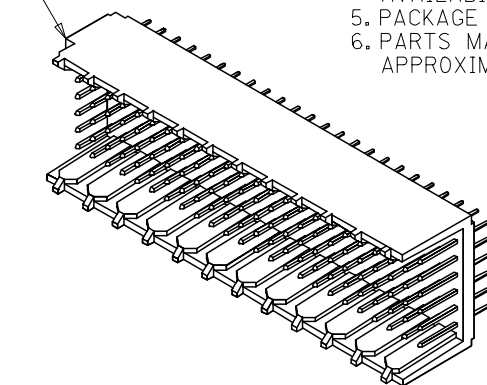
|                         |               |
|-------------------------|---------------|
| Packaging Specification | PK-70873-0818 |
| Sales Drawing           | SD-73942-001  |

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1. MATERIALS: HOUSING--LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED,  
UL94V-0, COLOR: BLACK,  
TERMINAL: PHOSPHOR BRONZE.
2. FINISH: 0.75 MICROMETERS MINIMUM SELECTIVE GOLD (Au) IN MATING AREA;  
2.50 MICROMETERS MINIMUM SELECTIVE TIN (Sn) IN TAIL AREA;  
NICKEL (Ni) UNDERPLATE OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION  
PS-73670-9999.
4. FOR MIXED CONTACT MATING LENGTHS, CONSULT FACTORY FOR  
AVAILABILITY.
5. PACKAGE PER PK-70873-0818.
6. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE,  
APPROXIMATELY WHERE SHOWN.



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 2.50 MIN.

|   |     |     |
|---|-----|-----|
|   | 2   | A   |
| E | 1   | G   |
|   | SHT | REV |

- SEE NOTE 6

|                                                                                                                                    |                                   |             |                                       |        |                                                            |                         |                    |                                                                             |                                                                                                                                  |           |  |  |                          |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|---------------------------------------|--------|------------------------------------------------------------|-------------------------|--------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|--------------------------|
| MODIFY FINISH NOTE<br>EC NO: UCP2007-2259<br>DRAWN BY: IBARRA 2007/03/13<br>CHK'D BY: BARKER 2007/03/21<br>APPR: MILLER 2007/03/22 | QUALITY SYMBOLS<br><br>▽=0<br>▽=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY                                 |                         | SCALE<br>2:1       | DESIGN UNITS<br>METRIC                                                      | THIRD ANGLE<br>PROJECTION                                                                                                        |           |  |  |                          |
|                                                                                                                                    |                                   |             |                                       | mm     | INCH                                                       | DRAWN BY<br>JB INGHAM   | DATE<br>1998/01/13 | TITLE<br>SALES ASSY HDM BACKPLANE<br>OPEN END OPTION<br>SOLDER TAIL VERSION |                                                                                                                                  |           |  |  |                          |
|                                                                                                                                    |                                   |             | 4 PLACES                              | ± ---  | ± ---                                                      | CHECKED BY<br>SREED     | DATE<br>1998/01/13 |                                                                             |                                                                                                                                  |           |  |  |                          |
|                                                                                                                                    |                                   |             | 3 PLACES                              | ± ---  | ± ---                                                      | APPROVED BY<br>CB IXLER | DATE<br>1998/01/13 |                                                                             |                                                                                                                                  |           |  |  | molex MOLEX INCORPORATED |
|                                                                                                                                    |                                   |             | 2 PLACES                              | ± 0.05 | ± ---                                                      | MATERIAL NO.            |                    | DOCUMENT NO.                                                                |                                                                                                                                  | SHEET NO. |  |  |                          |
|                                                                                                                                    |                                   |             | 1 PLACE                               | ± 0.10 | ± ---                                                      | SEE CHART               |                    | SD-73942-001                                                                |                                                                                                                                  | 1 OF 2    |  |  |                          |
|                                                                                                                                    |                                   |             | ANGULAR ±1/2°                         |        | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                         | SIZE<br>B          |                                                                             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |           |  |  |                          |
|                                                                                                                                    |                                   |             |                                       |        |                                                            |                         |                    |                                                                             |                                                                                                                                  |           |  |  |                          |
|                                                                                                                                    |                                   |             |                                       |        |                                                            |                         |                    |                                                                             |                                                                                                                                  |           |  |  |                          |
|                                                                                                                                    |                                   |             |                                       |        |                                                            |                         |                    |                                                                             |                                                                                                                                  |           |  |  |                          |

MATERIAL NUMBER ASSIGNMENT

73942-\* \* 0 0

| NUMBER | CIRCUIT SIZE | DIM "A" | DIM "B" | DIM "H" |
|--------|--------------|---------|---------|---------|
| 0      | 72           | 23.84   | 22.00   | 2.0     |
| 1      | 144          | 47.84   | 46.00   | 2.0     |
| 2      | 72           | 23.84   | 22.00   | 2.5     |
| 3      | 144          | 47.84   | 46.00   | 2.5     |
| 4      | 72           | 23.84   | 22.00   | 3.0     |
| 5      | 144          | 47.84   | 46.00   | 3.0     |
| 6      | 72           | 23.84   | 22.00   | 3.5     |
| 7      | 144          | 47.84   | 46.00   | 3.5     |

| NUMBER | DIM "M" |
|--------|---------|
| 0      | 5.0     |
| 1      | 5.5     |
| 2      | 6.0     |

|                                                                                                          |                    |                                                   |                                                           |                                             |                                                                                                                                   |                                                                                      |                             |                                                                            |                |     |     |
|----------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|-----------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------|----------------|-----|-----|
| SEE SHEET 1<br>EC No. U81577<br>DRWN:JBINGHAM 98/0203<br>CHK: SREED 98/0203<br>APPR:CBIXLER 98/0203<br>A | DESCRIPTION<br>REV | QUALITY SYMBOLS<br>MAJOR<br>=0<br>CRITICAL<br>C=0 | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED)                 |                                             | SCALE<br>--:--                                                                                                                    | DESIGN UNITS<br><input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH | THIRD ANGLE PROJECTION      | DIMENSIONS:                                                                |                | SHT | REV |
|                                                                                                          |                    |                                                   | <input type="checkbox"/> mm <input type="checkbox"/> INCH | <input checked="" type="checkbox"/> mm ONLY | REVISE ON CAD ONLY                                                                                                                |                                                                                      |                             |                                                                            |                |     |     |
|                                                                                                          |                    |                                                   | 4 PLACES ±0.                                              | ±.                                          | DRAWN BY & DATE<br>JBINGHAM 98/01/13                                                                                              |                                                                                      |                             | TITLE: SALES ASSY, HDM BACKPLANE<br>OPEN END OPTION<br>SOLDER TAIL VERSION |                |     |     |
|                                                                                                          |                    |                                                   | 3 PLACES ±0.                                              | ±.                                          | CHECKED BY & DATE<br>SREED 98/01/13                                                                                               |                                                                                      |                             |                                                                            |                |     |     |
|                                                                                                          |                    |                                                   | 2 PLACES ±0.N/A                                           | ±.                                          | APPROVED BY & DATE<br>CBIXLER 98/01/13                                                                                            |                                                                                      |                             |                                                                            |                |     |     |
| 1 PLACE ±0.N±A                                                                                           |                    | ±.                                                | CAD FILENAME<br>S73942X2.DGN                              |                                             | MATERIAL NO.<br>SEE CHART                                                                                                         |                                                                                      | DRAWING NO.<br>SD-73942-001 |                                                                            | SHEET NO.<br>2 |     |     |
| ANGULAR: ±                                                                                               |                    | °                                                 | DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS   |                                             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |                                                                                      |                             |                                                                            |                |     |     |

## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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