

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0739423000

Status:

Active

Overview:

[hdm](#)

Description:

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

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

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

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Backplane Connectors

Series

[73942](#)

Application

Backplane

Comments

Solder Tail

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)

0.098 In

PC Tail Length (mm)

2.50 mm

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

Plating min: Mating (µin)

30

Plating min: Mating (µm)

0.75

Plating min: Termination (µin)

100

Plating min: Termination (µm)

2.5

Stackable

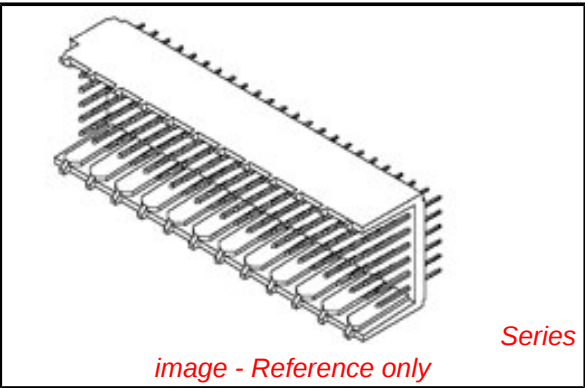
Yes

Surface Mount Compatible (SMC)

Yes

Temperature Range - Operating

-55°C to +105°C



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

[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> |

Termination Interface: Style

Through Hole

**Electrical**

Current - Maximum per Contact

1A

Data Rate

1.0 Gbps

Voltage - Maximum

250V AC

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification

PK-70873-0818

Sales Drawing

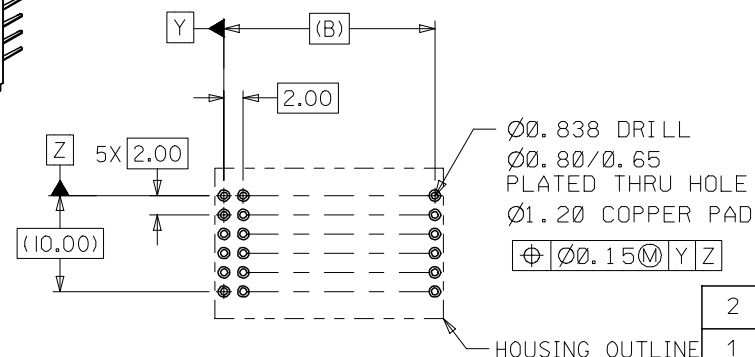
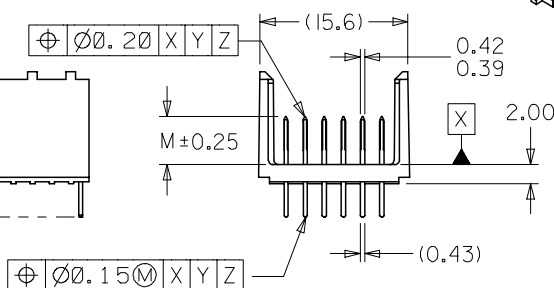
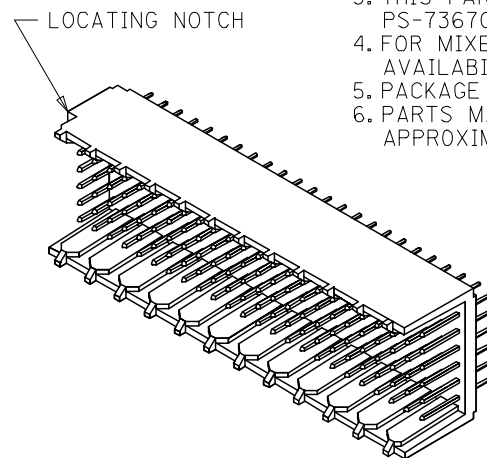
SD-73942-001

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1. MATERIALS: HOUSING--LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED,  
UL94V-O, 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 |                                                                             |                           |                     |  |
|                                                                                                                                    |                                   |             | 2 PLACES                              | ± 0.05    | ± ---                      | MOLEX<br>MOLEX INCORPORATED                                                                                                      |                    | DOCUMENT NO.                                                                |                           | SHEET NO.<br>1 OF 2 |  |
|                                                                                                                                    |                                   |             | 1 PLACE                               | ± 0.10    | ± ---                      |                                                                                                                                  |                    |                                                                             |                           |                     |  |
|                                                                                                                                    |                                   |             | ANGULAR ±1/2°                         |           | MATERIAL NO.               |                                                                                                                                  |                    |                                                                             |                           |                     |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                         |                                   |             |                                       | SEE CHART |                            | SD-73942-001                                                                                                                     |                    |                                                                             |                           |                     |  |
| REV                                                                                                                                |                                   |             |                                       |           | 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>CRITICAL                    | GENERAL TOLERANCES:<br>(UNLESS SPECIFIED) |                                                                                                                                   | SCALE<br>--:--                         | DESIGN UNITS<br><input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH | THIRD ANGLE<br>PROJECTION | DIMENSIONS:<br><input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY |  | SHT                     | REV |
|                                                                                                          |                    |                                                         | 4 PLACES ±0. ±.                           |                                                                                                                                   | DRAWN BY & DATE<br>JBINGHAM 98/01/13   |                                                                                      |                           | TITLE: SALES ASSY, HDM BACKPLANE<br>OPEN END OPTION<br>SOLDER TAIL VERSION<br>MOLEX INCORPORATED                     |  | REVISION ON<br>CAD ONLY |     |
|                                                                                                          |                    |                                                         | 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           |                                                                                      |                           |                                                                                                                      |  |                         |     |
| 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. |                                        |                                                                                      |                           |                                                                                                                      |  | SIZE<br>B               |     |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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

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

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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