

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0739446116](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Solder Tail, Guide Pin Option, 72 Circuits

**Documents:**  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-73670-9999 \(PDF\)](#)

**Agency Certification**

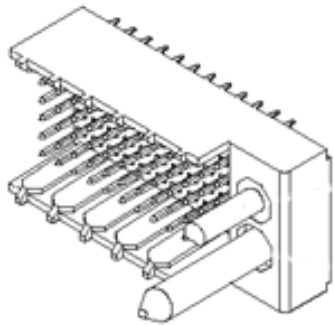
CSA LR19980  
UL E29179

**General**

Product Family Backplane Connectors  
Series [73944](#)  
Application Backplane  
Component Type PCB Header  
Overview [hdm](#)  
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 Yes  
Keying to Mating Part Yes  
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 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



Series

image - Reference only

**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**  
[73944Series](#)

**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 Insertion Signal | <a href="#">0621001400</a> |
| 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    |

**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 |
| Product Specification   | PS-73670-9999 |
| Sales Drawing           | SD-73944-001  |

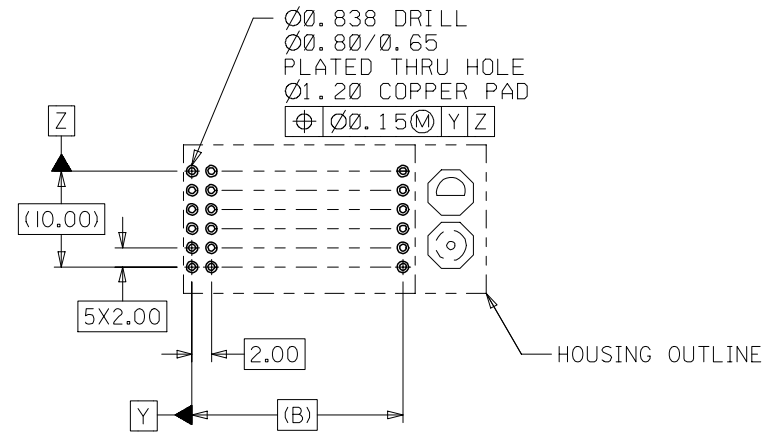
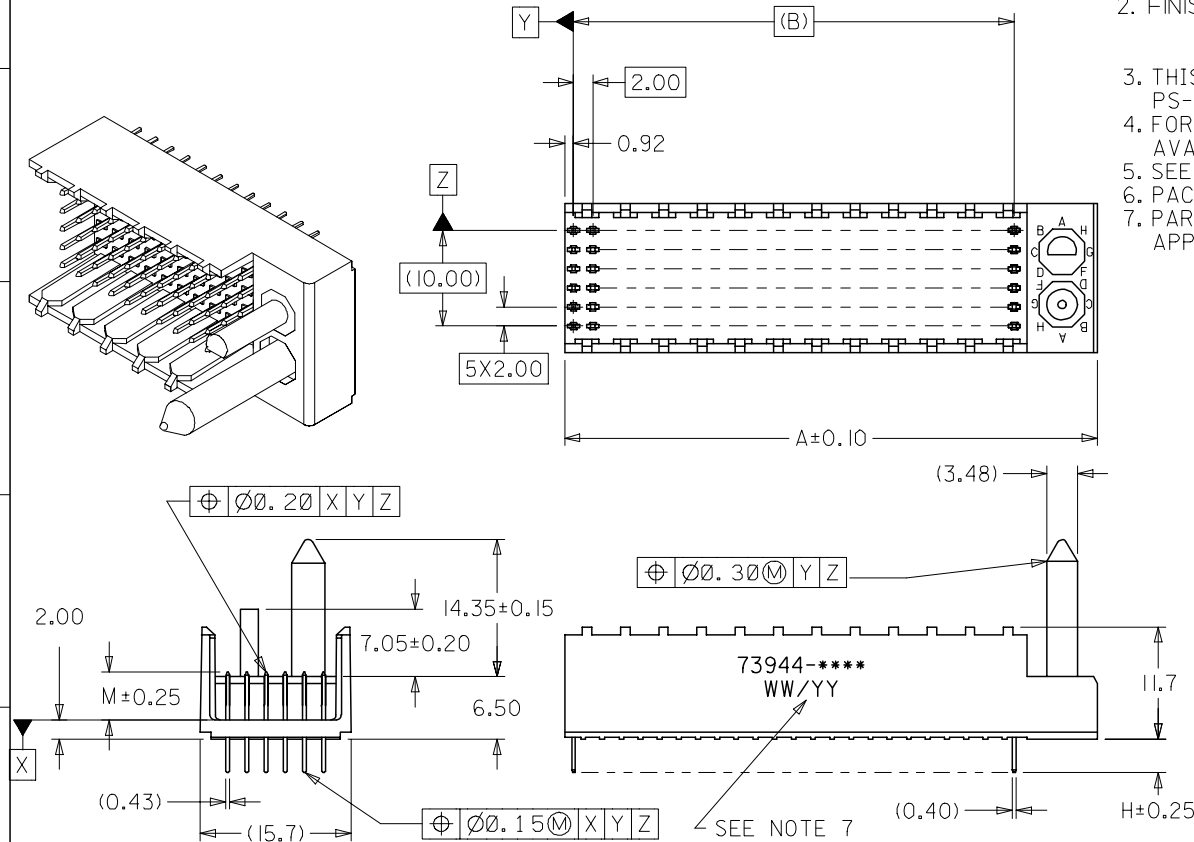
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This document was generated on 05/14/2010

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NOTES:

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. SEE SHEET 2 FOR SPECIFIC MATERIAL NUMBERS.
6. PACKAGE PER PK-70873-0818.
7. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.

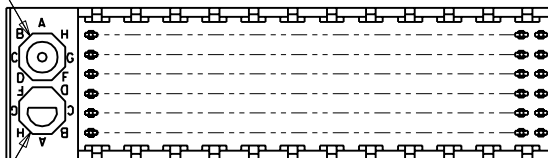


PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 2.50 MIN

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

|                                                                                                                              |             |                                                  |                                                            |       |                            |                    |                                                                                                                                  |                        |                                   |              |           |
|------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------|------------------------------------------------------------|-------|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|--------------|-----------|
| MODIFY FINISH NOTE<br>EC NO: UCP2007-2259<br>DRWN:MSI BARRA 2007/03/13<br>CHKD:BBARKER 2007/03/21<br>APPR:SMILLER 2007/03/22 | DESCRIPTION | QUALITY SYMBOLS<br><div>▽=0</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>MM ONLY |                    | SCALE<br>2:1                                                                                                                     | DESIGN UNITS<br>METRIC | <div>THIRD ANGLE PROJECTION</div> |              |           |
|                                                                                                                              |             |                                                  | mm                                                         | INCH  | DRAWN BY<br>JB INGHAM      | DATE<br>1998/01/14 | TITLE<br>SALES ASSY HDM BACKPLANE<br>POLAR/GUIDE OPTION<br>SOLDER TAIL VERSION                                                   |                        |                                   |              |           |
|                                                                                                                              |             |                                                  | 4 PLACES ± ---                                             | ± --- | CHECKED BY                 | DATE               |                                                                                                                                  |                        |                                   |              |           |
|                                                                                                                              |             |                                                  | 3 PLACES ± ---                                             | ± --- | SREED                      | 1998/01/14         |                                                                                                                                  |                        |                                   |              |           |
|                                                                                                                              |             |                                                  | 2 PLACES ± 0.05                                            | ± --- | APPROVED BY                | DATE               | MOLEX INCORPORATED                                                                                                               |                        |                                   |              |           |
|                                                                                                                              |             |                                                  | 1 PLACE ± 0.10                                             | ± --- | CBIXLER                    | 1998/01/14         |                                                                                                                                  |                        |                                   |              |           |
|                                                                                                                              |             |                                                  | ANGULAR ±1/2°                                              |       | MATERIAL NO.               |                    |                                                                                                                                  |                        |                                   | DOCUMENT NO. | SHEET NO. |
|                                                                                                                              |             |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE CHART                  |                    | SD-73944-001                                                                                                                     |                        |                                   | 1 OF 2       |           |
|                                                                                                                              |             |                                                  |                                                            |       | SIZE<br>B                  |                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                                   |              |           |
|                                                                                                                              |             |                                                  |                                                            |       |                            |                    |                                                                                                                                  |                        |                                   |              |           |

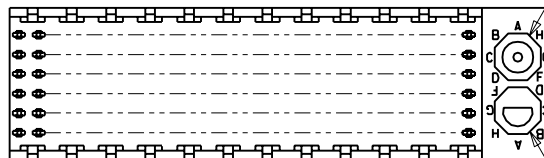
LOCATION A



ROW F

ROW A

LOCATION B



LOCATION B

REF. MATERIAL NUMBER 73944-1009  
GUIDE PIN IS IN LOCATION A  
POLARIZING KEY IS IN LOCATION B, POSITION E

REF. MATERIAL NUMBER 73944-1008  
GUIDE PIN IS IN LOCATION B  
POLARIZING KEY IS IN LOCATION A, POSITION E

LOCATION A

## MATERIAL NUMBER ASSIGNMENT

73944- \* \* \* \*

| NUMBER | CIRCUIT SIZE | DIM "A" | DIM "B" | DIM "H" |
|--------|--------------|---------|---------|---------|
| 0      | 72           | 31.60   | 22.00   | 2.00    |
| 1      | 144          | 55.60   | 46.00   | 2.00    |
| 2      | 72           | 31.60   | 22.00   | 2.50    |
| 3      | 144          | 55.60   | 46.00   | 2.50    |
| 4      | 72           | 31.60   | 22.00   | 3.00    |
| 5      | 144          | 55.60   | 46.00   | 3.00    |
| 6      | 72           | 31.60   | 22.00   | 3.50    |
| 7      | 144          | 55.60   | 46.00   | 3.50    |

| NUMBER | DIM "M" |
|--------|---------|
| 0      | 5.00    |
| 1      | 5.50    |
| 2      | 6.00    |

| NUMBER | GUIDE POST LOCATION | POLAR KEY POSITION |
|--------|---------------------|--------------------|
| 00     | B                   | A                  |
| 01     | A                   |                    |
| 02     | B                   |                    |
| 03     | A                   | B                  |
| 04     | B                   |                    |
| 05     | A                   | C                  |
| 06     | B                   |                    |
| 07     | A                   | D                  |
| 08     | B                   |                    |
| 09     | A                   | E                  |
| 10     | B                   |                    |
| 11     | A                   | F                  |
| 12     | B                   |                    |
| 13     | A                   | G                  |
| 14     | B                   |                    |
| 15     | A                   | H                  |
| 16     | B                   |                    |
| 17     | A                   | N/A                |
| 18     | N/A                 |                    |

SEE SHEET 1  
EC No. U81577  
DRWN: BINGHAM 98/02/03  
CHK: REED 98/02/03  
APPR: BIXLER 98/02/03

A

DESCRIPTION  
REV

QUALITY SYMBOLS  
MAJOR  
CRITICAL

GENERAL TOLERANCES:  
(UNLESS SPECIFIED)

|                                                      | mm     | INCH |
|------------------------------------------------------|--------|------|
| 4 PLACES                                             | ±0.    | ±.   |
| 3 PLACES                                             | ±0.    | ±.   |
| 2 PLACES                                             | ±0.N/A | ±.   |
| 1 PLACE                                              | ±0.N/A | ±.   |
| ANGULAR: ± 1/2°                                      |        |      |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |      |

SCALE  
2 : 1

DESIGN UNITS  
☒ mm ☐ INCH  
DRAWN BY & DATE  
JBINGHAM 98/01/14  
CHECKED BY & DATE  
SREED 98/01/14  
APPROVED BY & DATE  
CBIXLER 98/01/14  
CAD FILENAME  
S73944X2.DGN

THIRD ANGLE  
PROJECTION

TITLE: SALES ASSY, HDM BACKPLANE  
POLAR/GUIDE OPTION  
SOLDER TAIL VERSION  
MOLEX INCORPORATED

MATERIAL NO.  
SEE CHART  
DRAWING NO.  
SD-73944-001  
SHEET NO.  
2  
SIZE  
B



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

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