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**Part Number:** [0739441001](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Solder Tail, Guide Pin Option, 144 Circuits

**Documents:**  
[3D Model](#) [Product Specification PS-73670-9999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**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) 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 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) 0.079 In  
PC Tail Length (mm) 2.00 mm  
PCB Locator Yes  
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**

**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**  
[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                                                                                                                                                                  | <a href="#">0621001400</a> |
| Insertion Signal                                                                                                                                                                |                            |
| Contact Tool                                                                                                                                                                    |                            |
| Extraction Tool                                                                                                                                                                 | <a href="#">0621001000</a> |

|                                |                 |
|--------------------------------|-----------------|
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -55°C to +105°C |
| Termination Interface: Style   | Through Hole    |

**Electrical**

|                               |          |
|-------------------------------|----------|
| Current - Maximum per Contact | 1A       |
| Data Rate                     | 1.0 Gbps |
| 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  |

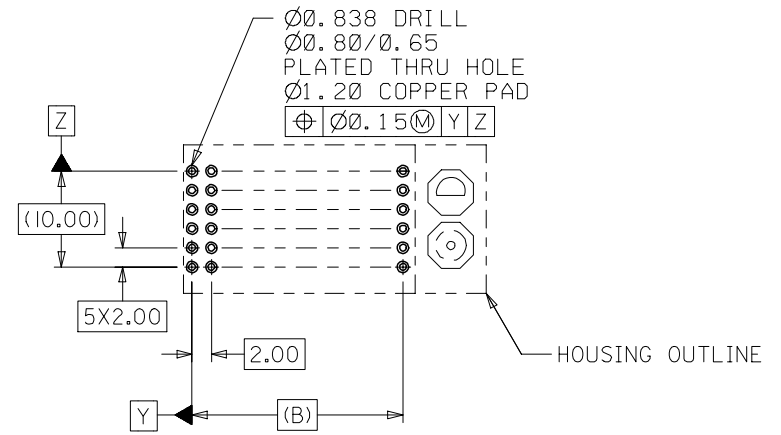
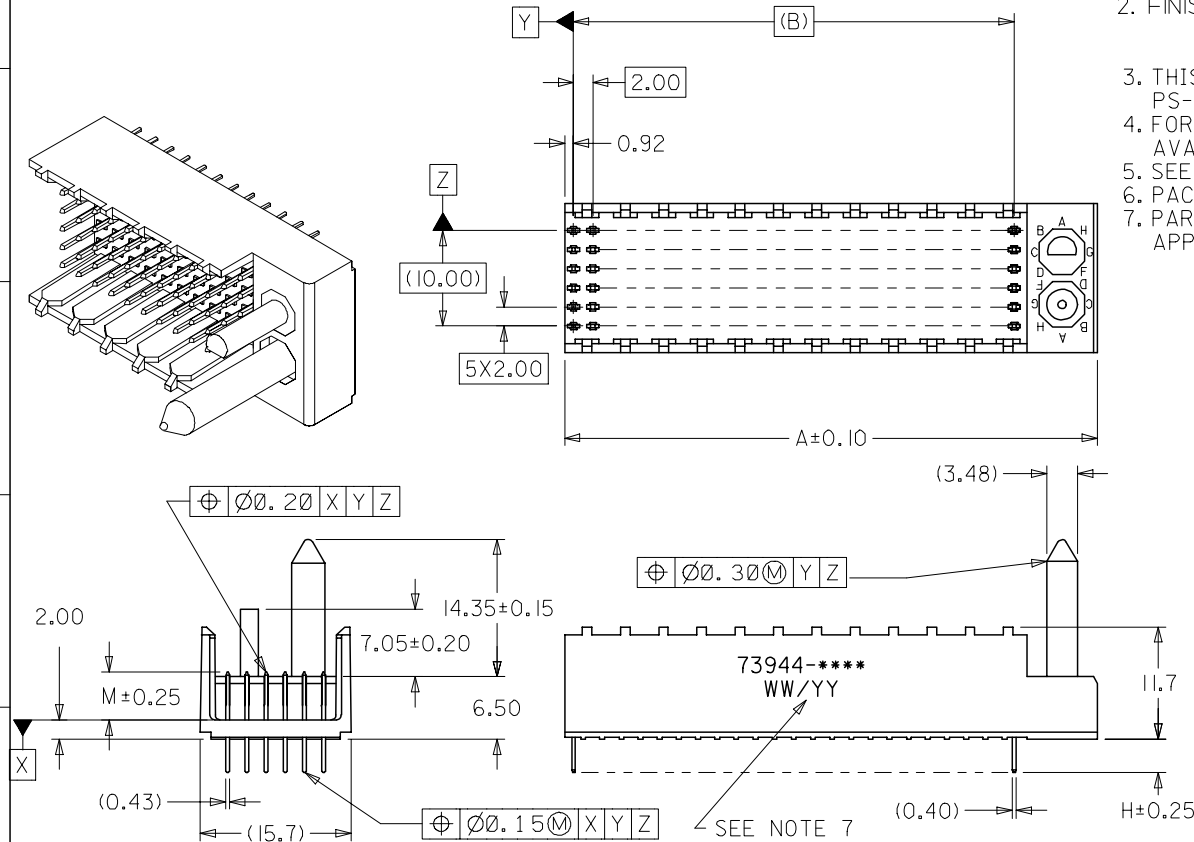
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NOTES:

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 | 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> |  |
|                                                                                                                              |                                                  | <div>mmINCH</div>                                          |  | DRAWN BY<br>JB INGHAM      |  | DATE<br>1998/01/14                                                                                                               | SALES ASSY HDM BACKPLANE<br>POLAR/GUIDE OPTION<br>SOLDER TAIL VERSION |                                   |  |
|                                                                                                                              |                                                  | 4 PLACES ± --- ± ---                                       |  | CHECKED BY<br>SREED        |  | DATE<br>1998/01/14                                                                                                               |                                                                       |                                   |  |
|                                                                                                                              |                                                  | 3 PLACES ± --- ± ---                                       |  | APPROVED BY<br>CBIXLER     |  | DATE<br>1998/01/14                                                                                                               |                                                                       |                                   |  |
|                                                                                                                              |                                                  | 2 PLACES ± 0.05 ± ---                                      |  |                            |  |                                                                                                                                  |                                                                       |                                   |  |
|                                                                                                                              |                                                  | 1 PLACE ± 0.10 ± ---                                       |  |                            |  |                                                                                                                                  | MOLEX INCORPORATED                                                    |                                   |  |
|                                                                                                                              |                                                  | ANGULAR ±1/2°                                              |  |                            |  |                                                                                                                                  |                                                                       |                                   |  |
|                                                                                                                              |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  | MATERIAL NO.               |  | DOCUMENT NO.                                                                                                                     |                                                                       | SHEET NO.                         |  |
|                                                                                                                              |                                                  |                                                            |  | 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

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DIMENSIONS:  
☐ mm ☐ INCH ☒ mm ONLY

SHT  
REV  
REVISE ON  
CAD ONLY

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 «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

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(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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