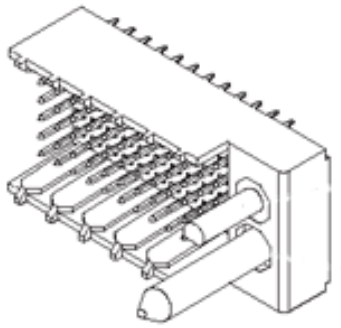
This document was generated on 05/14/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0739446201
**Status:** Active
**Overview:** hdm
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Solder Tail, Guide Pin Option, 72 Circuits



*Series image - Reference only*

**Documents:**

- 3D Model
- Drawing (PDF)
- Product Specification PS-73670-9999 (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) | 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 | 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 |

**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
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 Contact Tool | 0621001400 |
| Extraction Tool | 0621001000 |

| | |
|---|---|
| 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

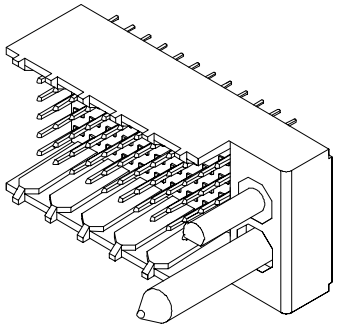
## Reference - Drawing Numbers

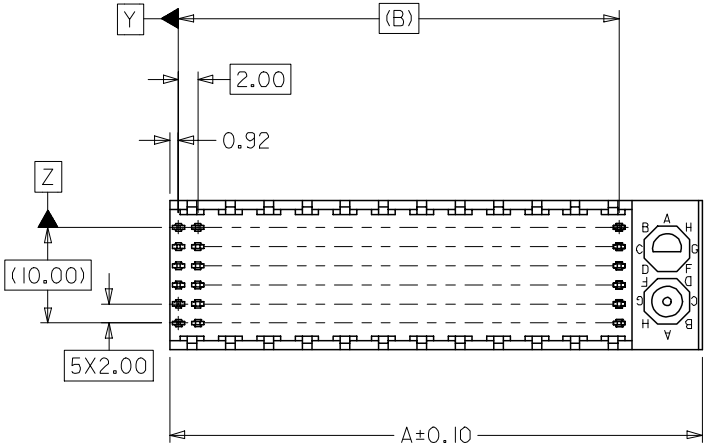
| | |
|---|---|
| Packaging Specification | PK-70873-0818 |
| Product Specification | PS-73670-9999 |
| Sales Drawing | SD-73944-001 |

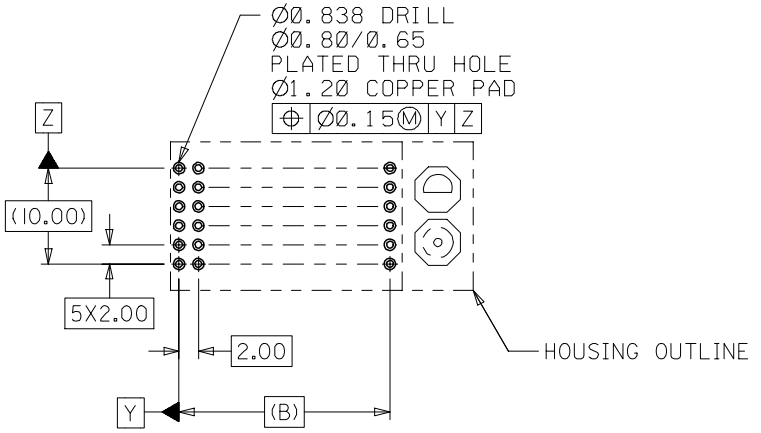
HDM and High Density Metric are trademarks of Amphenol Corporation

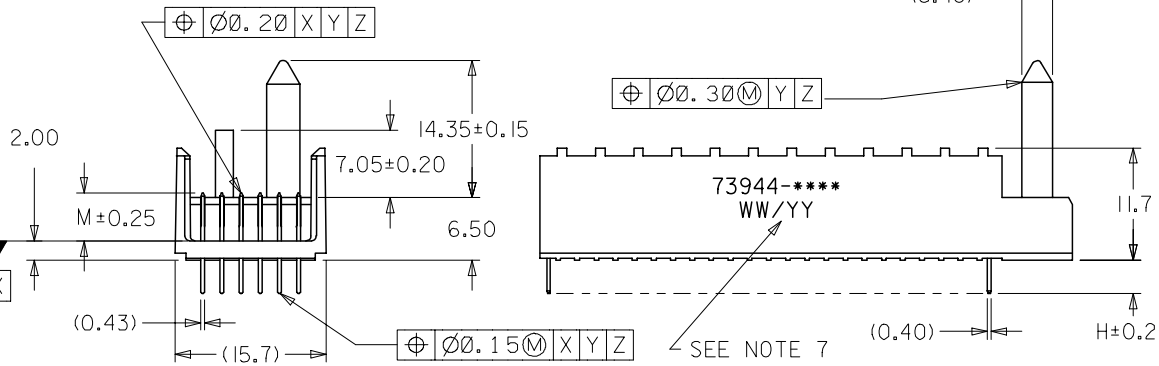
## NOTES:

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
EC NO: UCP2007-2259 2007/03/13
DRWN:MSIBARRA 2007/03/21
CH'KD:BBARKER
APPR:SMILLER 2007/03/22
DESCRIPTION
G
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.05 | ± --- |
| 1 PLACE | ± 0.10 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 2:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DRAWN BY | JBINGHAM | DATE 1998/01/14 |
| CHECKED BY | SREED | DATE 1998/01/14 |
| APPROVED BY | CBIXLER | DATE 1998/01/14 |

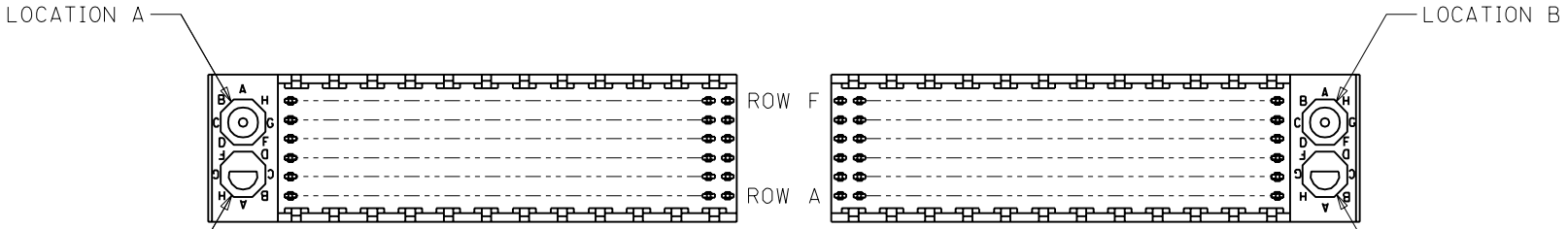
TITLE: SALES ASSY HDM BACKPLANE POLAR/GUIDE OPTION SOLDER TAIL VERSION

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-73944-001
SHEET NO.: 1 OF 2

SIZE B

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION




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

# 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 | B |
| 03 | A | |
| 04 | B | C |
| 05 | A | |
| 06 | B | D |
| 07 | A | |
| 08 | B | E |
| 09 | A | |
| 10 | B | F |
| 11 | A | |
| 12 | B | G |
| 13 | A | |
| 14 | B | H |
| 15 | A | |
| 16 | B | N/A |
| 17 | A | |
| 18 | N/A | |

SEE SHEET 1
EC NO. U81577 98/02/03
DRWN: BINGHAM 98/02/03
CH'K: REED 98/02/03
APPR: BIXLER 98/02/03
DESCRIPTION
A
REV

QUALITY SYMBOLS
MAJOR ▼ = 0
CRITICAL (C) = 0

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
THIRD ANGLE PROJECTION
DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY
SHT REV
REVISE ON CAD ONLY

DRAWN BY & DATE: JBINGHAM 98/01/14
CHECKED BY & DATE: SREED 98/01/14
APPROVED BY & DATE: CBIXLER 98/01/14

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

molex MOLEX INCORPORATED

CAD FILENAME: S73944X2.DGN
MATERIAL NO.: SEE CHART
DRAWING NO.: SD-73944-001
SHEET NO.: 2
SIZE: B

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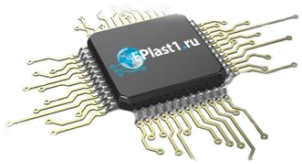
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- 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
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.