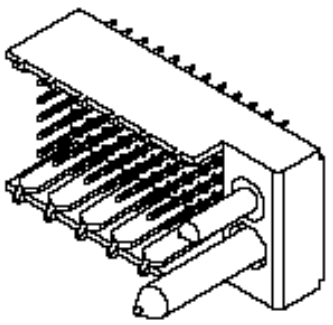
This document was generated on 05/14/2010

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

**Part Number:** 0736440016
**Status:** Active
**Overview:** hdm
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location B, Polarizing Key Position N/A, 72 Circuits



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Test Summary (PDF)
RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | Backplane Connectors |
| Series | 73644 |
| Application | Backplane |
| Comments | Standard Press-Fit |
| 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 | None |
| Material - Metal | Phosphor Bronze, Stainless Steel |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Gold |
| 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 | Yes |
| 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) | 2 |
| Plating min: Termination (µm) | 0.05 |

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
**Contains SVHC: No**
**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**
73644Series

**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 # |
|---|---|
| Flat Rock Tooling for Pneumatic Press | 0622013700 |
| HDM® Backplane Insertion Signal Contact Tool | 0621001400 |
| Extraction Tool | 0621001000 |

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

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1A |
| Data Rate | 1.0 Gbps |
| Real Signals (per 25mm) | 75 |
| Shielded | No |
| Voltage - Maximum | 250V AC |

## Material Info

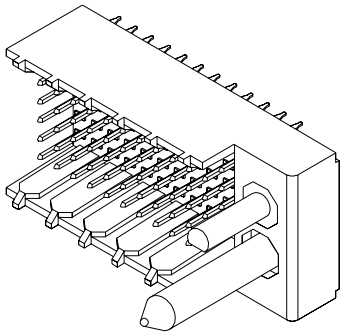
## Reference - Drawing Numbers

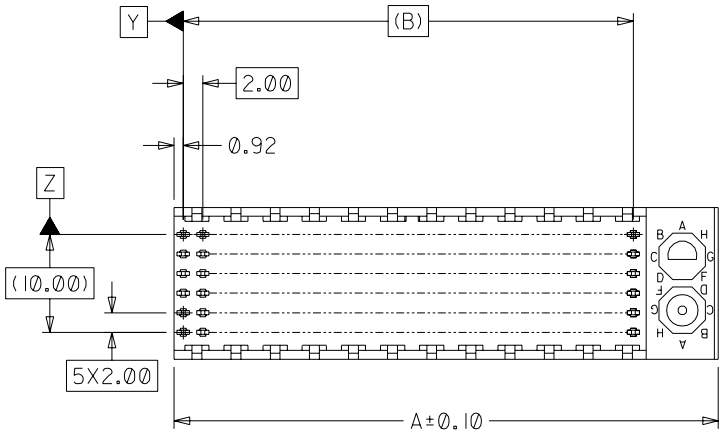
| | |
|---|---|
| Packaging Specification | PK-70873-0818 |
| Sales Drawing | SDA-73644-**** |

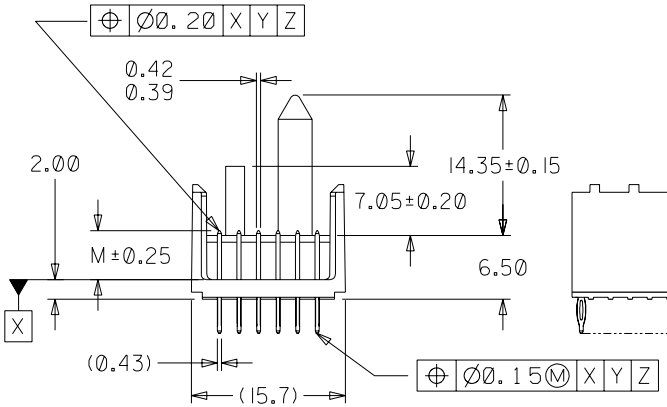
HDM and High Density Metric are trademarks of Amphenol Corporation

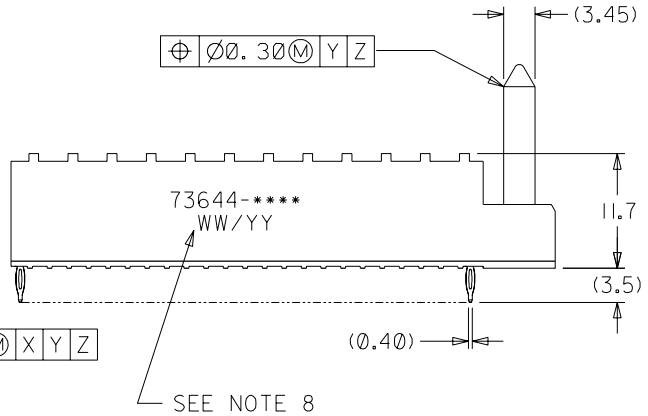
**NOTES:**

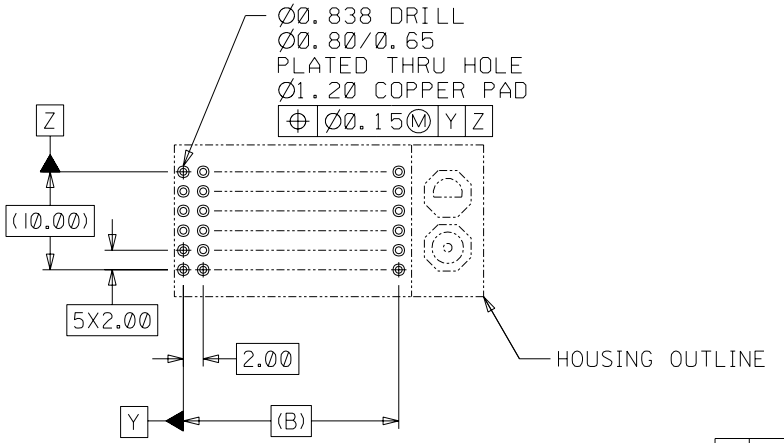
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL94V-0, COLOR: BLACK,
   TERMINAL - PHOSPHOR BRONZE.
2. FINISHES: SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MINIMUM THICKNESS; NICKEL (Ni) AND GOLD FLASH OVERALL
   SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076mm MIN. THICKNESS; SELECTIVE TIN/LEAD (Sb/Pb) IN TAIL AREA; NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73670-9999.
4. FOR MIXED CONTACT MATING LENGTHS, CONSULT FACTORY FOR AVAILABILITY.
5. DIMENSIONS ARE IN MILLIMETERS.
6. FOR SPECIFIC MATERIAL NUMBERS, REFER TO SHEET 2.
7. PACKAGE PER PK-70873-0818.
8. 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 | D |
|---|---|
| 1 | J |

MFG. SH. REV.

| LTR. | REVISIONS | LTR. | REVISIONS |
|---|---|---|---|
| | | I | REVISED ECR UDT2000-0348 BINGHAM 99/10/12 |
| | | H | REVISED ECR UDT1999-0662 BINGHAM 99/05/18 |
| J | REVISED ECR UCP2003-2260 THOMAS 03/04/25 | G | REVISED ECR UDT1999-0476 BINGHAM 98/12/21 |

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

| | INCH | METRIC |
|---|---|---|
| 3 PLACE | ± N/A | --- |
| 2 PLACE | ± N/A | ± 0.05 |
| 1 PLACE | --- | ± 0.10 |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| DRWG. BY | JRR | CHK'D. BY | SMR |
|---|---|---|---|
| APP'D. BY | CAB | SCALE | 2 : 1 |

C = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM

TITLE
SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION

molex MOLEX INCORPORATED LISLE,ILL. 60532 U.S.A.

SHEET NO. 1 OF 2

DATE 96/12/18

PART NO. SEE CHART

DRWG. NO. SDA-73644-****

FILE NAME S73644X1 DGN

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

DIV. DA SIZE B

| MATERIAL NUMBER | NUMBER OF SIGNAL CONTACTS | PLATING | DIM "A" | DIM "B" | DIM "M" |
|---|---|---|---|---|---|
| 73644-00** | 72 | SELECTIVE GOLD/GOLD FLASH | 31.60 | 22.00 | 5.00 |
| 73644-01** | 72 | SELECTIVE GOLD/GOLD FLASH | 31.60 | 22.00 | 5.50 |
| 73644-02** | 72 | SELECTIVE GOLD/GOLD FLASH | 31.60 | 22.00 | 6.00 |
| 73644-10** | 144 | SELECTIVE GOLD/GOLD FLASH | 55.60 | 46.00 | 5.00 |
| 73644-11** | 144 | SELECTIVE GOLD/GOLD FLASH | 55.60 | 46.00 | 5.50 |
| 73644-12** | 144 | SELECTIVE GOLD/GOLD FLASH | 55.60 | 46.00 | 6.00 |
| 73644-20** | 72 | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 31.60 | 22.00 | 5.00 |
| 73644-21** | 72 | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 31.60 | 22.00 | 5.50 |
| 73644-22** | 72 | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 31.60 | 22.00 | 6.00 |
| 73644-30** | 144 | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 55.60 | 46.00 | 5.00 |
| 73644-31** | 144 | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 55.60 | 46.00 | 5.50 |
| 73644-32** | 144 | SELECTIVE GOLD/SELECTIVE TIN-LEAD | 55.60 | 46.00 | 6.00 |

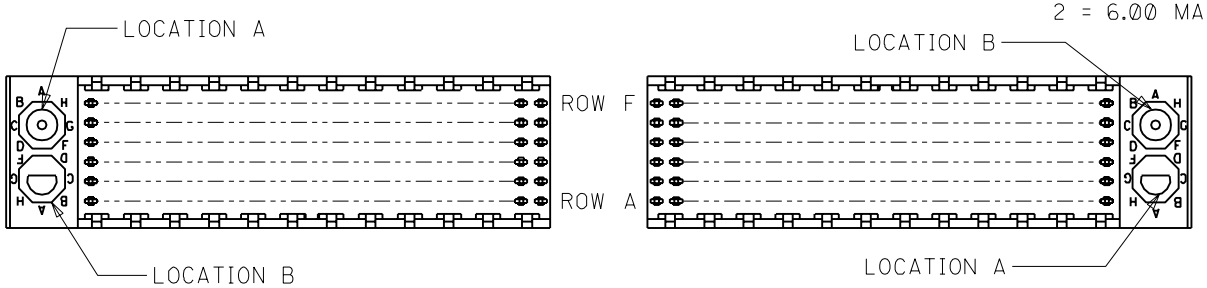
## MATERIAL NUMBER ASSIGNMENT

73644- * * * *

0 = 72-CIRCUIT, GOLD/GOLD FLASH
1 = 144-CIRCUIT, GOLD/GOLD FLASH
2 = 72-CIRCUIT, GOLD/TIN-LEAD
3 = 144-CIRCUIT, GOLD/TIN-LEAD

0 = 5.00 MATING LENGTH
1 = 5.50 MATING LENGTH
2 = 6.00 MATING LENGTH

| 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 | |




REF. MATERIAL NUMBER 73644-0009
GUIDE PIN IS IN LOCATION A
POLARIZING KEY IS IN LOCATION B, POSITION E




REF. MATERIAL NUMBER 73644-0008
GUIDE PIN IS IN LOCATION B
POLARIZING KEY IS IN LOCATION A, POSITION E

| LTR. | REVISIONS | LTR. | REVISIONS |
|---|---|---|---|
| | | D | SEE SHEET 1 |

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°

| | INCH | METRIC |
|---|---|---|
| 3 PLACE | ± N/A | --- |
| 2 PLACE | ± N/A | ± N/A |
| 1 PLACE | --- | ± N/A |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| | | | |
|---|---|---|---|
| DRWG. BY | JRR | CHK'D. BY | SMR |
| APP'D. BY | CAB | SCALE | --:-- |

C = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM

TITLE
SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION

MOLEX INCORPORATED
LISLE, ILL. 60532 U.S.A.

SHEET NO. 2
DATE 96/12/18

PART NO. SEE CHART
DRWG. NO. SDA-73644-****

FILE NAME S73644X2 DGN

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DIV. DA
SIZE B

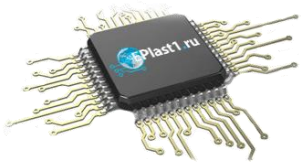
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- 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.);

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- 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.