

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

**Part Number:** [0737711100](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Stacking Header, High Rise Vertical, SMC, Press-Fit, Guide Pin Option, 144 Circuits

**Documents:**

[3D Model](#) [Product Specification PS-73780-999 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

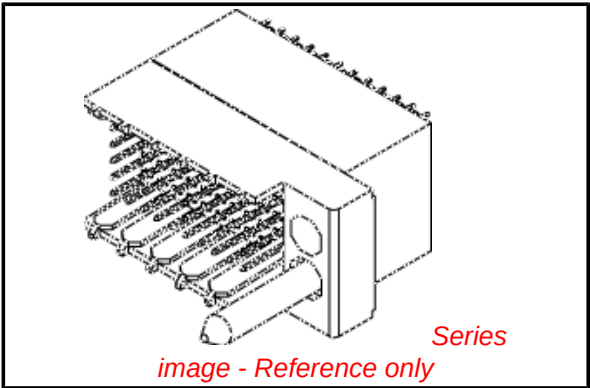
Product Family Backplane Connectors  
Series [73771](#)  
Application Midplane  
Component Type PCB Header  
Overview [hdm](#)  
Product Name HDM®  
Style N/A

**Physical**

Circuits (Loaded) 144  
Circuits (maximum) 144  
Color - Resin Black  
Durability (mating cycles max) 250  
Flammability 94V-0  
Keying to Mating Part Yes  
Material - Metal Phosphor Bronze, Stainless Steel  
Material - Plating Mating Gold  
Material - Plating Termination Tin-Lead  
Material - Resin High Temperature Thermoplastic  
Number of Columns 24  
Number of Pairs Open Pin Field  
Number of Rows 6  
Orientation Vertical  
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  
Plating min: Mating (µin) 30  
Plating min: Mating (µm) 0.75  
Plating min: Termination (µin) 15  
Plating min: Termination (µm) 0.375  
Polarized to PCB 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



**EU RoHS**

**RoHS Compliant by Exemption**

**REACH SVHC**

**Contains SVHC: No**

**Halogen-Free**

**Status**

**Halogen-Free**

**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**

[73771Series](#)

**Mates With**

[73632](#) HDM PLUS® Board-to-Board Daughterboard 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    | <a href="#">0621001400</a> |
| HDM® Backplane Insertion Head for 144 Positions | <a href="#">0622005703</a> |
| Extraction Tool                                 | <a href="#">0621001000</a> |

Voltage - Maximum250V AC

Material Info

Reference - Drawing Numbers

Packaging SpecificationPK-70873-0870

Product SpecificationPS-73780-999

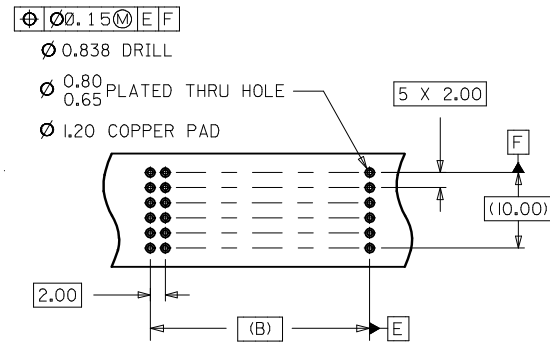
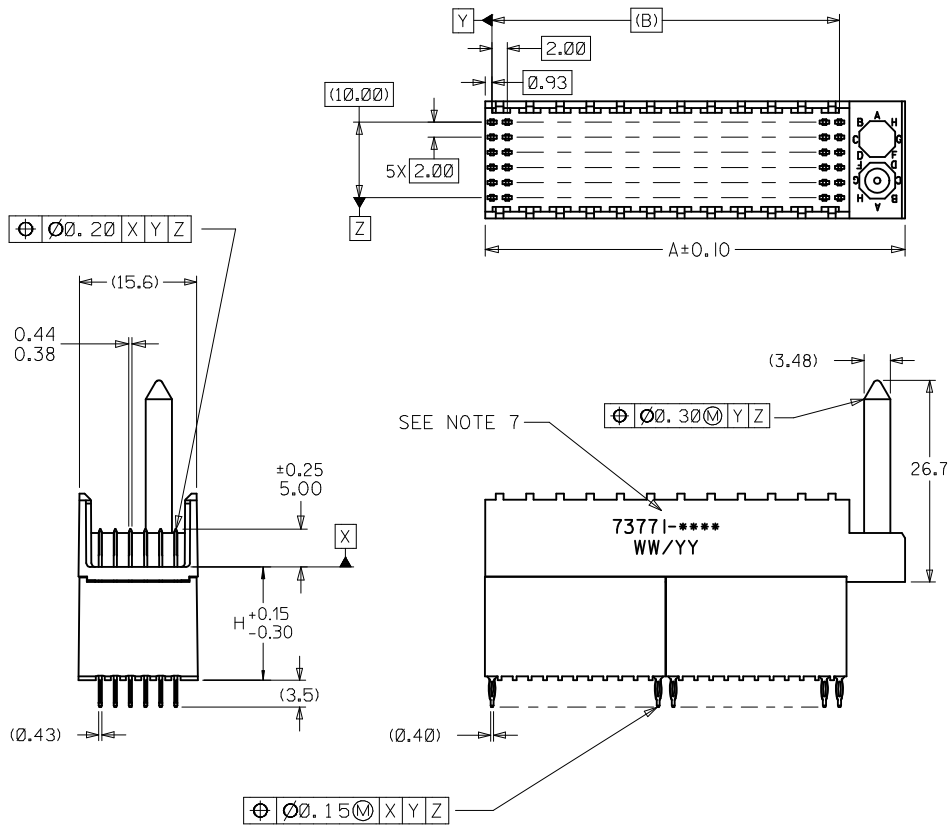
Sales DrawingSD-73771-001

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This document was generated on 05/14/2010

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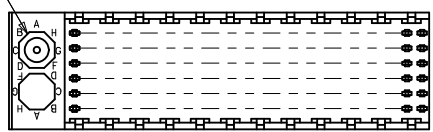
| 13           | 12                              | 11      | 10      | 9       | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|--------------|---------------------------------|---------|---------|---------|---|---|---|---|---|---|---|---|
| ASSEMBLY P/N | TOTAL NUMBER OF SIGNAL CONTACTS | DIM "A" | DIM "B" | DIM "H" |   |   |   |   |   |   |   |   |
| 73771-01**   | 72                              | 31.6    | 22.00   | 15.05   |   |   |   |   |   |   |   |   |
| 73771-02**   | 72                              | 31.6    | 22.00   | 6.05    |   |   |   |   |   |   |   |   |
| 73771-03**   | 72                              | 31.6    | 22.00   | 10.05   |   |   |   |   |   |   |   |   |
| 73771-11**   | 144                             | 55.6    | 46.00   | 15.05   |   |   |   |   |   |   |   |   |
| 73771-12**   | 144                             | 55.6    | 46.00   | 6.05    |   |   |   |   |   |   |   |   |
| 73771-13**   | 144                             | 55.6    | 46.00   | 10.05   |   |   |   |   |   |   |   |   |



- NOTES:
1. MATERIALS: HOUSING-LIQUID CRYSTAL POLYMER (LCP), GLASS FILLED, UL 94V-0, COLOR: BLACK, TERMINAL-PHOSPHOR BRONZE
  2. FINISH: SELECTIVE GOLD (Au) IN CONTACT AREA, 0.00076 mm MINIMUM THICKNESS; SELECTIVE TIN/LEAD (Sn/Pb) ON TAILS, NICKEL (Ni) OVERALL.
  3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73780-999.
  4. THIS PART CONFORMS TO COSMETIC SPECIFICATION PS-45499-002 CLASS C.
  5. RECOMMENDED PCB THICKNESS: 250 MIN.
  6. PACKAGE PER PK-70873-0870, PK-70873-0871 OR PK-70873-0875.
  7. PART MARKED WITH PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN.

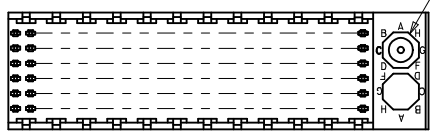
| REVISE H DIM TOL |  | QUALITY SYMBOLS            |  | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE |  | SCALE                                                                                                                         |  | DESIGN UNITS |  | THIRD ANGLE PROJECTION  |  |
|------------------|--|----------------------------|--|---------------------------------------|--|-----------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|--------------|--|-------------------------|--|
| REV              |  | DESCRIPTION                |  | mm                                    |  | INCH            |  | 2:1                                                                                                                           |  | METRIC       |  | MOLEX INCORPORATED      |  |
| G                |  | REVISE H DIM TOL           |  | 4 PLACES                              |  | ± 0.05          |  | DRAWN BY                                                                                                                      |  | DATE         |  | SALES ASSEMBLY HDM      |  |
|                  |  | EC NO: UCP2008-3186        |  | 3 PLACES                              |  | ± 0.10          |  | JB INGHAM                                                                                                                     |  | 1997/03/07   |  | BACKPLANE STACKING MOD  |  |
|                  |  | DRWN:SDANWELLEY 2008/07/29 |  | 2 PLACES                              |  | ± 0.10          |  | CHECKED BY                                                                                                                    |  | DATE         |  | CLOSED END OPT PRESSFIT |  |
|                  |  | CHKD:MSIBARRA 2008/09/11   |  | 1 PLACE                               |  | ± 0.10          |  | SREED                                                                                                                         |  | 1997/03/07   |  | MOLEX INCORPORATED      |  |
|                  |  | APPR:SMILLER 2008/09/16    |  |                                       |  | ANGULAR ± 1/2°  |  | APPROVED BY                                                                                                                   |  | DATE         |  | DOCUMENT NO.            |  |
|                  |  |                            |  |                                       |  |                 |  | CBIXLER                                                                                                                       |  | 1997/03/07   |  | SD-73771-001            |  |
|                  |  |                            |  |                                       |  |                 |  | MATERIAL NO.                                                                                                                  |  |              |  | SHEET NO.               |  |
|                  |  |                            |  |                                       |  |                 |  | SEE CHART                                                                                                                     |  |              |  | 1 OF 2                  |  |
|                  |  |                            |  |                                       |  |                 |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |              |  |                         |  |

LOCATION A



REF. MATERIAL NUMBER 73771-1100  
GUIDE PIN IS IN LOCATION A

LOCATION B



REF. MATERIAL NUMBER 73771-1101  
GUIDE PIN IS IN LOCATION B

**MATERIAL NUMBER ASSIGNMENT**

73771- \* \* \* \*

0 = 72-CIRCUIT  
1 = 144-CIRCUIT

1 = 15.05 STACKING HEIGHT  
2 = 6.05 STACKING HEIGHT  
3 = 10.05 STACKING HEIGHT

| NUMBER | GUIDE POST LOCATION |
|--------|---------------------|
| 00     | A                   |
| 01     | B                   |
| 02     | N/A                 |

SEE SHEET 1

EC NO: UCP2008-3186

DRWN:SDANIELLEY 2008/07/29

CHKD:MSIBARRA 2008/09/11

APPR:SMILLER 2008/09/16

G

REV

DESCRIPTION

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

|             |            |
|-------------|------------|
| DRAWN BY    | DATE       |
| JB INGHAM   | 1997/03/07 |
| CHECKED BY  | DATE       |
| SREED       | 1997/03/07 |
| APPROVED BY | DATE       |
| CB IXLER    | 1997/03/07 |

MATERIAL NO.

SEE TABLE

SIZE

C

SCALE

1:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

SALES ASSEMBLY HDM  
BACKPLANE STACKING MOD  
CLOSED END OPT PRESSFIT

molex

MOLEX INCORPORATED

DOCUMENT NO.

SD-73771-001

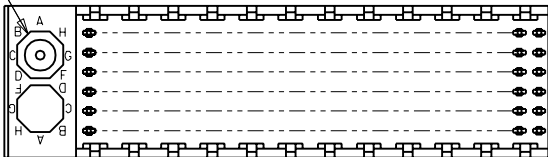
SHEET NO.

2 OF 2

tb\_frame\_C\_P\_AM\_T

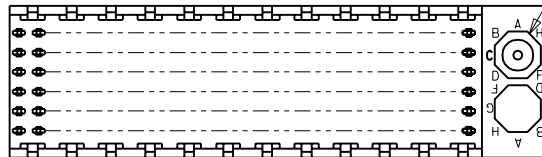
Rev. E 2006/04/15

LOCATION A



REF. MATERIAL NUMBER 73771-1100  
GUIDE PIN IS IN LOCATION A

LOCATION B



REF. MATERIAL NUMBER 73771-1101  
GUIDE PIN IS IN LOCATION B

## MATERIAL NUMBER ASSIGNMENT

73771- \* \* \* \*

0 = 72-CIRCUIT  
1 = 144-CIRCUIT

1 = 15.05 STACKING HEIGHT  
2 = 6.05 STACKING HEIGHT  
3 = 10.05 STACKING HEIGHT

| NUMBER | GUIDE POST LOCATION |
|--------|---------------------|
| 00     | A                   |
| 01     | B                   |
| 02     | N/A                 |

SEE SHEET 1  
EC NO. UDT2000-1073  
DRWN: BINGHAM 000508  
CHK: REED 000508  
APPR: BIXLER 000508

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: ± °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE NO: NE  
DESIGN UNITS  
THIRD ANGLE PROJECTION  
DRAWN BY & DATE  
JBINGHAM 97/03/07  
CHECKED BY & DATE  
SREED 97/03/07  
APPROVED BY & DATE  
CBIXLER 97/03/07  
CAD FILENAME  
S73771X2.DGN

TITLE: SALES ASSEMBLY  
HDM BACKPLANE STACKING MODULE  
POLAR/GUIDE OPTION PRESSFIT  
MOLEX INCORPORATED  
MATERIAL NO. SEE CHART  
DRAWING NO. SD-73771-001  
SHEET NO. 2