

**PLEASE CHECK 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**

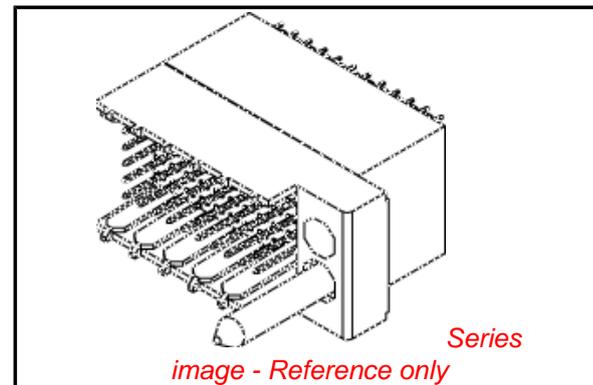
Product Family Backplane Connectors  
 Series [73771](#)  
 Application Midplane  
 Component Type PCB Header  
 Overview [hdm](#)  
 Product Name HDM®  
 Style N/A

**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**

**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.

**China RoHS**



Pb

**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 Extraction Tool	<a href="#">0622005703</a>
	<a href="#">0621001000</a>

Voltage - Maximum

250V AC

**Material Info**

**Reference - Drawing Numbers**

Packaging Specification

PK-70873-0870

Product Specification

PS-73780-999

Sales Drawing

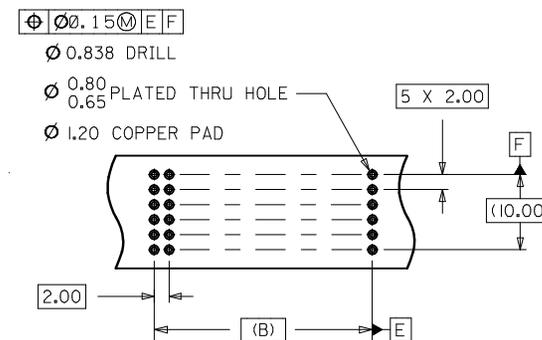
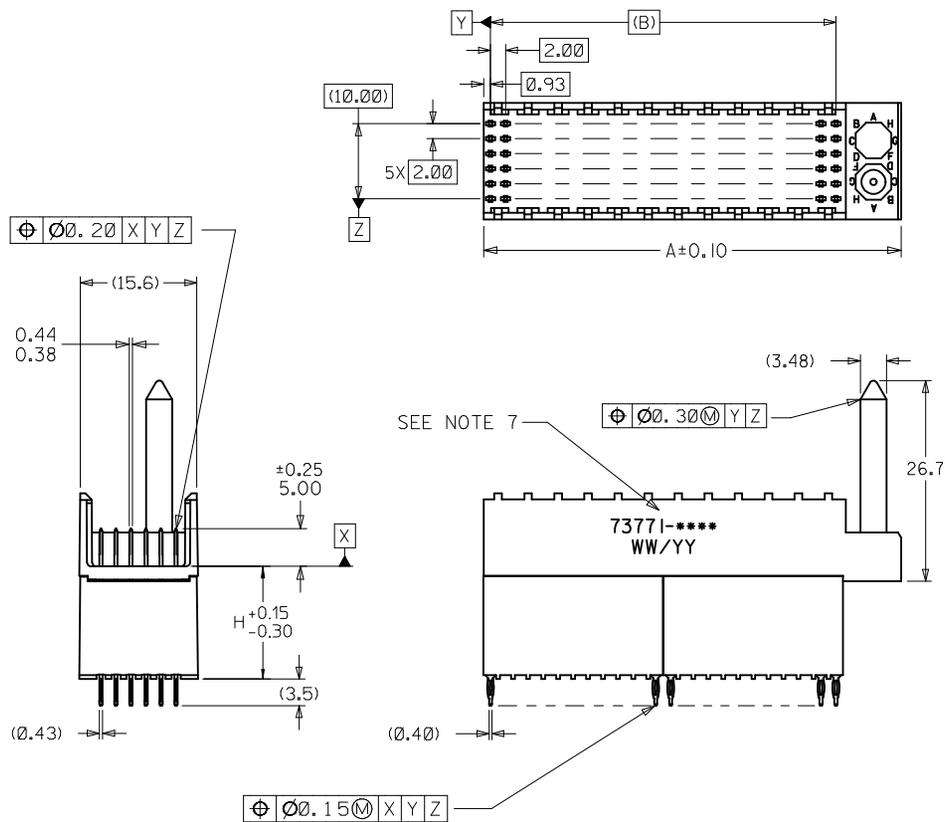
SD-73771-001

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This document was generated on 05/14/2010

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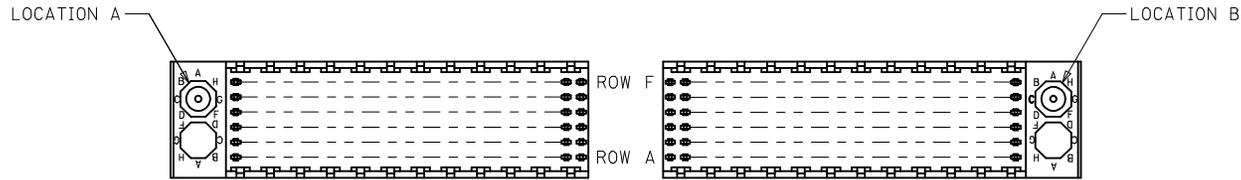
ASSEMBLY P/N	TOTAL NUMBER OF SIGNAL CONTACTS	DIM "A"	DIM "B"	DIM "H"
73771-01**	72	31.6	22.00	15.05
73771-02**	72	31.6	22.00	6.05
73771-03**	72	31.6	22.00	10.05
73771-11**	144	55.6	46.00	15.05
73771-12**	144	55.6	46.00	6.05
73771-13**	144	55.6	46.00	10.05



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: 2.50 MM.
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 IEC NO: UCP2008-3186 DRWN:SDANWELLEY 2008/07/29 CHK:DMSIBARRA 2008/09/11 APPR:SMILLER 2008/09/16	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>		SCALE <b>2:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.05 ± --- 1 PLACE ± 0.10 ± --- ANGULAR ± 1/2°	mm INCH ± --- ± --- ± 0.05 ± --- ± 0.10 ± ---	DRAWN BY JB INGHAM	DATE 1997/03/07	CHECKED BY SREED	DATE 1997/03/07	SALES ASSEMBLY HDM BACKPLANE STACKING MOD CLOSED END OPT PRESSFIT	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. <b>SEE CHART</b>		APPROVED BY CB IXLER		DATE 1997/03/07		MOLEX MOLEX INCORPORATED	
		SIZE <b>C</b>		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DOCUMENT NO. <b>SD-73771-001</b>		SHEET NO. <b>1 OF 2</b>	



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

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

**MATERIAL NUMBER ASSIGNMENT**

73771- \* \* \* \*

0 = 72-CIRCUIT  
1 = 144-CIRCUIT

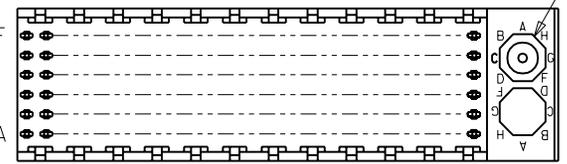
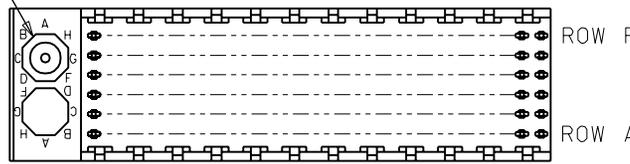
1 = 15.05 STACKING HEIGHT  
2 = 6.05 STACKING HEIGHT  
3 = 10.05 STACKING HEIGHT

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

SEE SHEET 1 EC NO: UCP2008-3186 DRWN:SDANWELLY 2008/07/29 CHK:DMSTBARRA 2008/09/11 APPR:SMILLER 2008/09/16	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE <b>MM ONLY</b>	SCALE <b>1:1</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION																
		<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>3 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.05</td> <td>± .---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.10</td> <td>± .---</td> </tr> </tbody> </table>			mm	INCH	4 PLACES	± .---	± .---	3 PLACES	± .---	± .---	2 PLACES	± 0.05	± .---	1 PLACE	± 0.10	± .---	DRAWN BY JB INGHAM	DATE 1997/03/07	TITLE <b>SALES ASSEMBLY HDM BACKPLANE STACKING MOD CLOSED END OPT PRESSFIT</b>		
			mm	INCH																			
		4 PLACES	± .---	± .---																			
3 PLACES	± .---	± .---																					
2 PLACES	± 0.05	± .---																					
1 PLACE	± 0.10	± .---																					
ANGULAR ±1/2°		CHECKED BY SREED	DATE 1997/03/07																				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY CB IXLER		DATE 1997/03/07	MOLEX INCORPORATED																		
		MATERIAL NO. <b>SEE TABLE</b>		DOCUMENT NO. SD-73771-001				SHEET NO. 2 OF 2															

LOCATION A

LOCATION B



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

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 00/05/08  
CHK: REED 00/05/08  
APPR: BIXLER 00/05/08

DESCRIPTION  
REV F

QUALITY SYMBOLS  
MAJOR  $\blacktriangledown = 0$   
CRITICAL  $\nabla = 0$

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	$\pm 0.$	$\pm.$
3 PLACES	$\pm 0.$	$\pm.$
2 PLACES	$\pm 0.N/A$	$\pm.$
1 PLACE	$\pm 0.N/A$	$\pm.$

ANGULAR:  $\pm$   $^{\circ}$

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE NO: NE  
DESIGN UNITS  mm  INCH

THIRD ANGLE PROJECTION  mm  INCH  mm ONLY

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

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