

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

**Part Number:** [0738022216](#)  
**Status:** **Active**  
**Overview:** [hdm](#)  
**Description:** 2.00mm (.079") Pitch HDM® Board-to-Board Midplane Header, Vertical, SMC, Press-Fit, Long Pin, Guide Pin Option, 72 Circuits

**Documents:**

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

**Agency Certification**

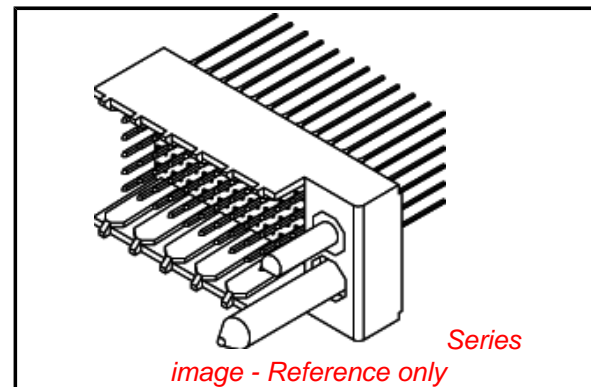
CSA LR19980  
 UL E29179

**General**

Product Family Backplane Connectors  
 Series [73802](#)  
 Application Midplane  
 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 Stainless Steel  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin-Lead  
 Material - Resin High Temperature Thermoplastic  
 Number of Columns 15  
 Number of Pairs Open Pin Field  
 Number of Rows 6  
 Orientation Vertical  
 PC Tail Length (in) 0.453 In  
 PC Tail Length (mm) 11.50 mm  
 PCB Locator No  
 PCB Retention Yes  
 PCB Thickness Recommended (in) 0.156 In  
 PCB Thickness Recommended (mm) 3.95 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) 35.2  
 Plating min: Termination (µm) 0.88  
 Polarized to PCB No



**EU RoHS**

**RoHS Compliant by  
Exemption  
REACH SVHC  
Not Reviewed  
Halogen-Free  
Status  
Not Reviewed**

**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**

[73802Series](#)

**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	<a href="#">0622013700</a>

Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C

### **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-70873-0868
Product Specification	PS-73780-999
Sales Drawing	SD-73802-001

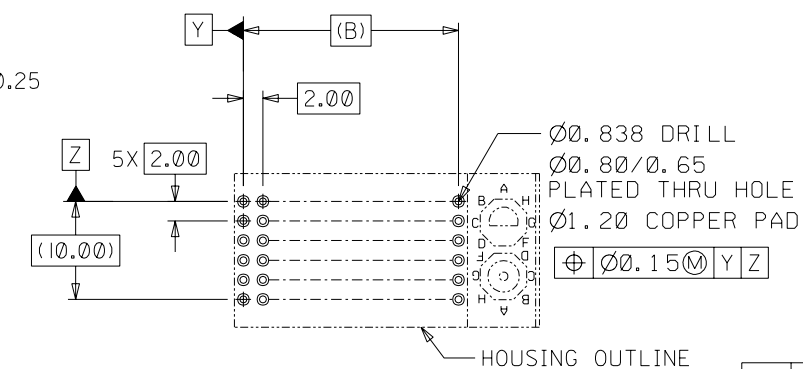
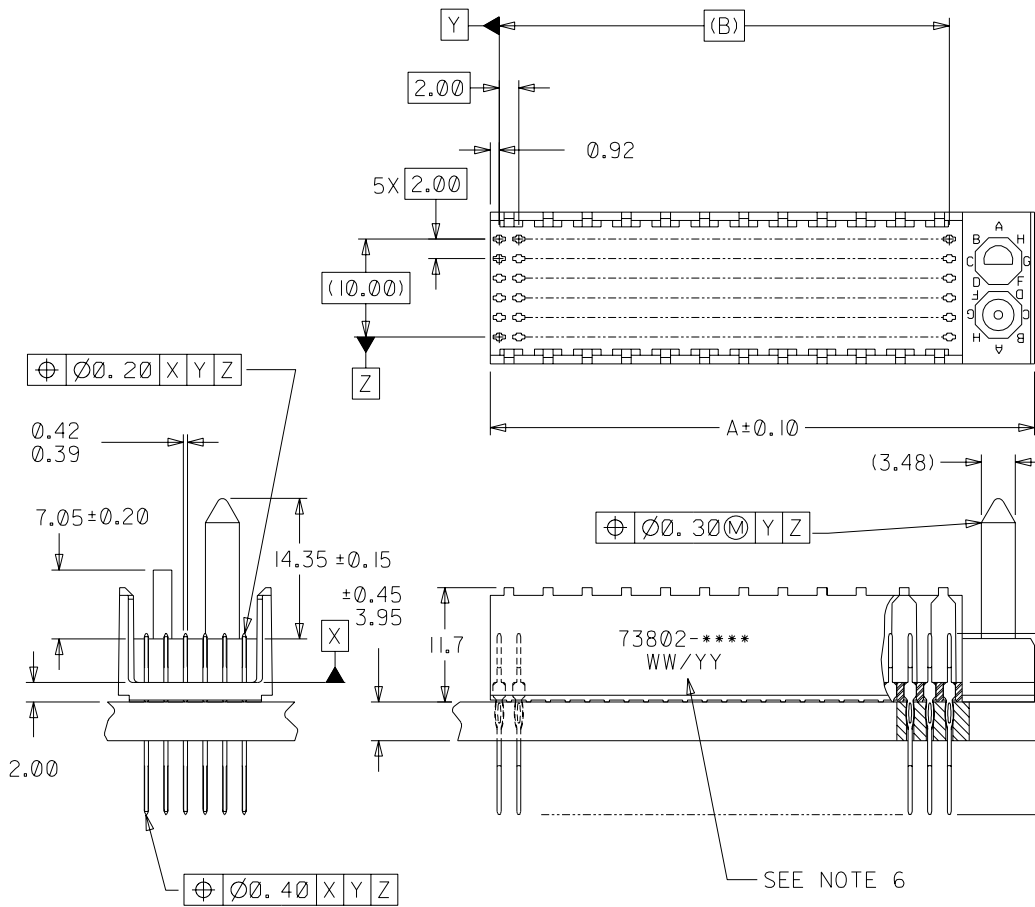
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This document was generated on 05/14/2010

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# 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 MINIMUM THICKNESS; SELECTIVE TIN/LEAD (Sn/Pb) IN COMPLIANT AREA; NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-73780-999.
4. FOR MIXED CONTACT MATING LENGTHS, CONSULT FACTORY FOR AVAILABILITY.
5. PACKAGE PER PK-70873-0868.
6. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.



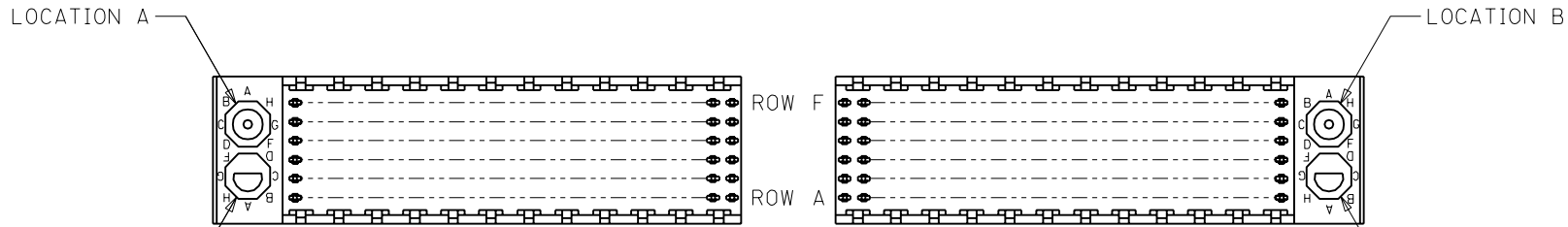
PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: 3.95 ± 0.45

MATERIAL NUMBER	NUMBER OF CONTACTS	DIM "A"	DIM "B"	DIM "M"	PLATING
73802-00**	72	31.6	22.00	5.00	GOLD/GOLD FLASH
73802-02**	72	31.6	22.00	6.00	GOLD/GOLD FLASH
73802-10**	144	55.6	46.00	5.00	GOLD/GOLD FLASH
73802-12**	144	55.6	46.00	6.00	GOLD/GOLD FLASH
73802-20**	72	31.6	22.00	5.00	GOLD/TIN-LEAD
73802-22**	72	31.6	22.00	6.00	GOLD/TIN-LEAD
73802-30**	144	55.6	46.00	5.00	GOLD/TIN-LEAD
73802-32**	144	55.6	46.00	6.00	GOLD/TIN-LEAD

REVISIONS	EC NO. UCP2004-1438	QUALITY SYMBOLS
1	DRWN: BINGHAM 04/02/04	MAJOR $\nabla = 0$
2	CHK: REED 04/02/04	CRITICAL $\nabla C = 0$
3	APPR: BIXLER 04/02/04	
4		
5		
6		
7		
8		
9		
10		

GENERAL TOLERANCES: (UNLESS SPECIFIED)	SCALE 2 : 1	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH
4 PLACES ± 0.1	DRAWN BY & DATE JBINGHAM 97/05/19	THIRD ANGLE PROJECTION
3 PLACES ± 0.1	CHECKED BY & DATE SREED 97/05/19	TITLE: SALES ASSEMBLY HDM DOUBLE-END MIDPLANE POLAR/GUIDE OPTION
2 PLACES ± 0.05	APPROVED BY & DATE CBIXLER 97/05/19	MOLEX MOLEX INCORPORATED
1 PLACE ± 0.10	CAD FILENAME S73802X1.DGN	MATERIAL NO. SEE CHART
ANGULAR: ± 1/2°	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWING NO. SD-73802-001
		SHEET NO. 1 OF 2
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

2	E
1	H
SHT	REV
REVISE ON CAD ONLY	



REF. MATERIAL NUMBER 73802-1009  
 GUIDE PIN IS IN LOCATION A  
 POLARIZING KEY IS IN LOCATION B, POSITION E

REF. MATERIAL NUMBER 73802-1008  
 GUIDE PIN IS IN LOCATION B  
 POLARIZING KEY IS IN LOCATION A, POSITION E

### MATERIAL NUMBER ASSIGNMENT

73802- \* \* \* \*

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

- 0 = 5.00 MATING LENGTH
- 1 = RESERVED
- 2 = 6.00 MATING LENGTH

NUMBER	GUIDE POST LOCATION	POLAR KEY POSITION
00	B	
01	A	A
02	B	
03	A	B
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	
17	A	N/A
18	N/A	

SEE SHEET 1 EC NO. UDT2000-0277 DRWN: JBINGHAM 99/09/21 CHK: REED 99/09/21 APPR: CBIXLER 99/09/21	DESCRIPTION MAJOR $\nabla = 0$ CRITICAL $\nabla C = 0$	QUALITY SYMBOLS	GENERAL TOLERANCES: (UNLESS SPECIFIED)	SCALE NO: NE <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	DIMENSIONS: <input type="checkbox"/> mm <input type="checkbox"/> INCH <input checked="" type="checkbox"/> mm ONLY	SHT REV	
		DRAWN BY & DATE JBINGHAM 97/05/19	CHECKED BY & DATE SREED 97/05/19	APPROVED BY & DATE CBIXLER 97/05/19	CAD FILENAME S73802X2.DGN	TITLE: SALES ASSEMBLY HDM DOUBLE-END MIDPLANE POLAR/GUIDE OPTION	MOLEX INCORPORATED	MATERIAL NO. SEE CHART
REV E	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	ANGULAR: $\pm 1/2^\circ$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	SIZE B				