

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0736440009](#)
Status: **Active**
Overview: [hdm](#)
Description: 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Guide Post Location A, Polarizing Key Position E, 72 Circuits

Documents:
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

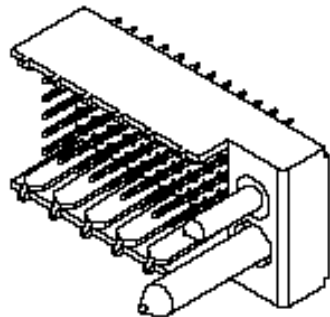
CSA	LR19980
UL	E29179

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	Yes
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
Polarized to PCB	No



Series

image - Reference only

EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Halogen-Free	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

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

This document was generated on 05/14/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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.

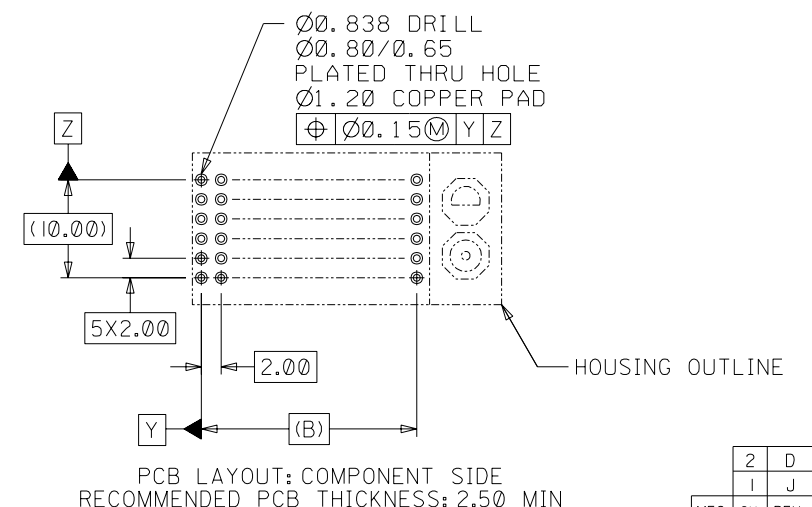
7. PACKAGE PER PK-70873-0818.

8. PARTS MARKED WITH PART NUMBER AND DATE CODE, ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.

Diagram details: The diagram shows a rectangular PCB layout. Key dimensions include a total width of 11.7, a central width of 5x2.00, and a tail width of 2.00. Drill holes are specified as Ø0.838, Ø0.80/Ø.65, and Ø1.20. A copper pad is Ø0.15. The layout is labeled with 'Z' and 'Y' coordinates. A dashed line indicates the 'HOUSING OUTLINE'. A note specifies 'PCB LAYOUT: COMPONENT SIDE' and 'RECOMMENDED PCB THICKNESS: 2.50 MIN'.

2	D
1	J
MFG.	SH. REV.

REVISED JDT 2000-0348 HAM 99/10/12 REVISED JDT 1999-0662 HAM 99/05/18 REVISED JDT 1999-0476 HAM 98/12/21 REVISIONS	DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2° <table border="1" style="width: 100%;"> <tr> <th></th> <th>INCH</th> <th>METRIC</th> </tr> <tr> <td>3 PLACE</td> <td>± N/A</td> <td>---</td> </tr> <tr> <td>2 PLACE</td> <td>± N/A</td> <td>± 0.05</td> </tr> <tr> <td>1 PLACE</td> <td>---</td> <td>± 0.10</td> </tr> </table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DRWG. BY JRR CHK'D. BY SMR APP'D. BY CAB SCALE 2 : 1		INCH	METRIC	3 PLACE	± N/A	---	2 PLACE	± N/A	± 0.05	1 PLACE	---	± 0.10	TITLE SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION MOLEX INCORPORATED LITTLE ROCK, AR 60532 U.S.A. PART NO. SEE CHART FILE NAME S73644X1 DGN SHEET NO. 1 OF 2 DATE 96/12/18 DIV. DA SIZE B
	INCH	METRIC												
3 PLACE	± N/A	---												
2 PLACE	± N/A	± 0.05												
1 PLACE	---	± 0.10												



				I	REVISED ECR UDT2000-0348 BINGHAM 99/10/12	DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 1/2^\circ$		$\nabla = 0$ $\blacktriangledown = 0$ REVISE ONLY ON CAD SYSTEM	
				H	REVISED ECR UDT1999-0662 BINGHAM 99/05/18	INCH METRIC 3 PLACE $\pm N/A$ --- 2 PLACE $\pm N/A$ ± 0.05 1 PLACE --- ± 0.10		TITLE SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION	
J		REVISED ECR UCP2003-2260 THOMAS 03/04/25		G	REVISED ECR UDT1999-0476 BINGHAM 98/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED SHEET NO. DATE LISLE, ILL. 60532 U.S.A. 1 OF 2 96/12/18	
LTR.		REVISIONS		LTR.	REVISIONS	DRWG. BY JRR CHK'D. BY SMR APP'D. BY CAB SCALE 2 : 1		PART NO. DRWG. NO. SEE CHART SDA-73644-****	
						FILE NAME THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO S73644X1 MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. DGN		DIV. SIZE DA B	

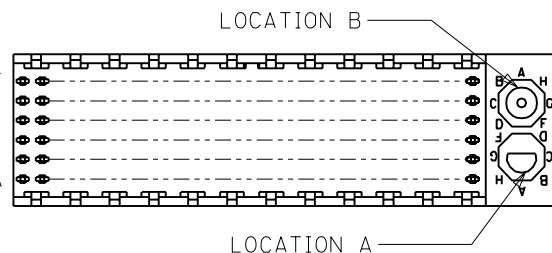
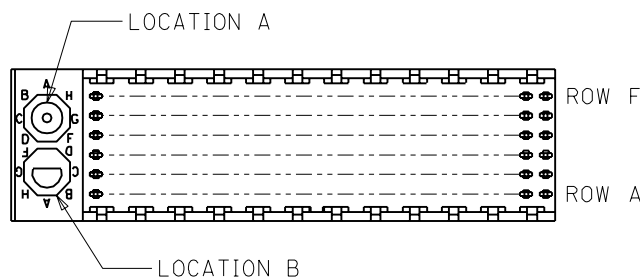
10		9	8	7	6		7364
F	MATERIAL NUMBER	NUMBER OF SIGNAL CONTACTS	PLATING		DIM "A"	DIM "B"	DIM "M"
	73644-00**	72	SELECTIVE GOLD/GOLD FLASH		31.60	22.00	5.00
	73644-01**	72	SELECTIVE GOLD/GOLD FLASH		31.60	22.00	5.50
	73644-02**	72	SELECTIVE GOLD/GOLD FLASH		31.60	22.00	6.00
	73644-10**	144	SELECTIVE GOLD/GOLD 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
E	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
```



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

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	

A									DIMENSIONS SHOWN (METRIC) INCH				▽ = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM																			
									UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°				TITLE																			
									<table><tr><td colspan="2">INCH</td><td colspan="2">METRIC</td></tr><tr><td>3 PLACE</td><td>± N/A</td><td colspan="2">---</td></tr><tr><td>2 PLACE</td><td>± N/A</td><td colspan="2">± N/A</td></tr><tr><td>1 PLACE</td><td>---</td><td colspan="2">± N/A</td></tr></table>				INCH		METRIC		3 PLACE	± N/A	---		2 PLACE	± N/A	± N/A		1 PLACE	---	± N/A					
	INCH		METRIC																													
	3 PLACE	± N/A	---																													
	2 PLACE	± N/A	± N/A																													
	1 PLACE	---	± N/A																													
									DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																							
				D				SEE SHEET 1																								
								DRWG. BY JRR CHK'D. BY SMR																								
LTR. REVISIONS				LTR. REVISIONS				APP'D. BY CAB SCALE -- : --																								
												<table><tr><td>FILE NAME</td><td colspan="2">S73644X2 DGN</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.</td><td>DIV.</td><td>DA</td><td>SIZE</td><td>B</td></tr></table>				FILE NAME	S73644X2 DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		DIV.	DA	SIZE	B								
FILE NAME	S73644X2 DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		DIV.	DA	SIZE	B																								
10		9		8		7		6		5		4		3		2		1														

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9