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Part Number: [0736441012](#)
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 G, 144 Circuits

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

Agency Certification

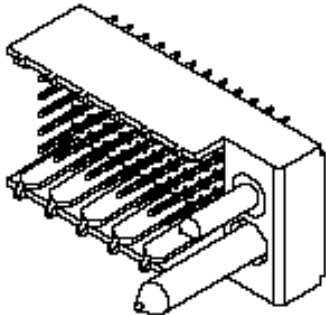
CSA	LR19980
UL	E29179

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)	144
Circuits (maximum)	144
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	24
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
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
HDM® Backplane Insertion Head for 144 Positions	0622005703

Stackable	No	Extraction Tool	0621001000
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

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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 tail width of 3.5, and a main body width of 5x2.00. A central contact area is 2.00 wide. Drill holes are specified as Ø0.838, with a plated thru hole of Ø0.80/Ø0.65 and a copper pad of Ø1.20. A circular feature has a diameter of Ø0.15. A housing outline is indicated. A coordinate system with Z and Y axes is shown. A table at the bottom right lists dimensions in inches and metric.

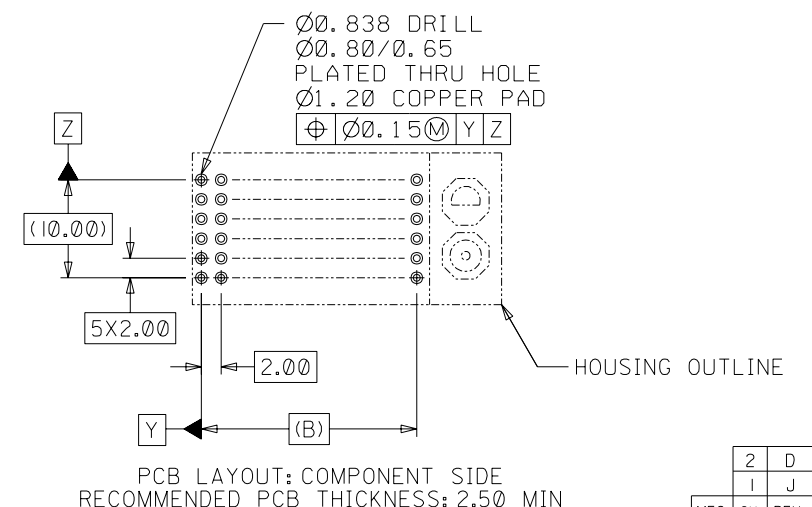
	INCH	METRIC
3 PLACE	± N/A	---
2 PLACE	± N/A	± 0.05
1 PLACE	---	± 0.10

PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 2.50 MIN

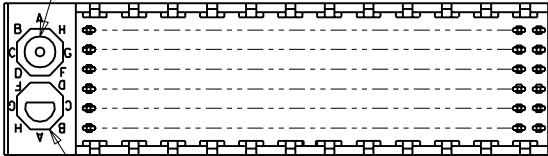
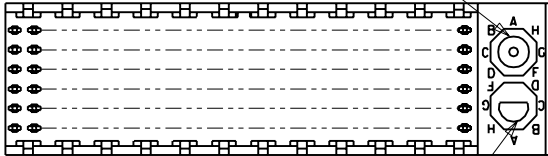
2	D
1	J
MFG.	SH. REV.

REVISED JDT 2000-0348 HAM 99/10/12	DRWG. BY JRR	CHK'D BY SMR	FILE NAME S73644X1 DGN
REVISED JDT 1999-0662 HAM 99/05/18	APP'D BY CAB	SCALE 2 : 1	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.
REVISED JDT 1999-0476 HAM 98/12/21			
REVISIONS			

SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION	SHEET NO. 1 OF 2	DATE 96/12/18
MOLEX INCORPORATED LISLE, ILL. 60532 U.S.A.	DRWG. NO. SDA-73644-*****	DIV. DA
SEE CHART	SIZE B	



				I	REVISED ECR UDT2000-0348 BINGHAM 99/10/12	DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 1/2^\circ$ <table><tr><td></td><td>INCH</td><td>METRIC</td></tr><tr><td>3 PLACE</td><td>$\pm N/A$</td><td>---</td></tr><tr><td>2 PLACE</td><td>$\pm N/A$</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			INCH	METRIC	3 PLACE	$\pm N/A$	---	2 PLACE	$\pm N/A$	± 0.05	1 PLACE	---	± 0.10	$\nabla = 0$ $\blacktriangledown = 0$ REVISE ONLY ON CAD SYSTEM	
	INCH	METRIC																			
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1 PLACE	---	± 0.10																			
				H	REVISED ECR UDT1999-0662 BINGHAM 99/05/18	<table><tr><td colspan="2">TITLE</td></tr><tr><td colspan="2">SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION</td></tr></table>		TITLE		SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION											
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J		REVISED ECR UCP2003-2260 THOMAS 03/04/25	G	REVISED ECR UDT1999-0476 BINGHAM 98/12/21	<table><tr><td></td><td>MOLEX INCORPORATED LISLE, ILL. 60532 U.S.A.</td><td>SHEET NO. 1 OF 2</td><td>DATE 96/12/18</td></tr></table>			MOLEX INCORPORATED LISLE, ILL. 60532 U.S.A.	SHEET NO. 1 OF 2	DATE 96/12/18											
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LTR.		REVISIONS	LTR.	REVISIONS																	

	10	9	8	7	6	5	4	3	2	1	73644												
	MATERIAL NUMBER	NUMBER OF SIGNAL CONTACTS	PLATING	DIM "A"	DIM "B"	DIM "M"																	
F	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																	
E	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																	
D	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																
C	LOCATION A 			LOCATION B 																			
B	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																			
A							DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2° <table><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>± N/A</td></tr><tr><td>1 PLACE</td><td>---</td><td>± N/A</td></tr></table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DRWG. BY JRR CHK'D. BY SMR APP'D. BY CAB SCALE ---:---						INCH	METRIC	3 PLACE	± N/A	---	2 PLACE	± N/A	± N/A	1 PLACE	---	± N/A
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	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

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