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Part Number: [0736443016](#)
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 N/A, 144 Circuits

Documents:

3D Model	Drawing (PDF)
Test Summary (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

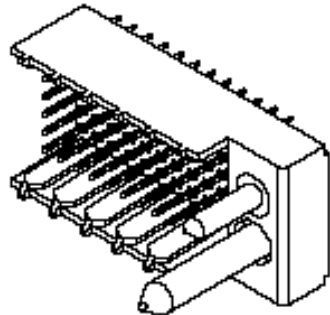
CSA	LR19980
UL	E29179

General

Product Family	Backplane Connectors
Series	73644
Application	Backplane
Comments	Standard Press-Fit, Tin/Lead (SnPb)
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	None
Material - Metal	Phosphor Bronze, Stainless Steel
Material - Plating Mating	Gold
Material - Plating Termination	Tin
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)	15
Plating min: Termination (µm)	0.375



Series

image - Reference only

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
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	0622013700
Pneumatic Press	
HDM® Backplane	0621001400
Insertion Signal	
Contact Tool	
HDM® Backplane	0622005703
Insertion Head for	
144 Positions	

Polarized to PCB	No	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-****		

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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 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.



2	D
1	J
MFG.	SH. REV.

REVISIONS: 2 = 0, 1 = 0, REVISE ONLY ON CAD SYSTEM

TITLE		SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION	
MOLEX INCORPORATED LISLE, ILL. 60532		SHEET NO. 1 OF 2	DATE 96/12/18
PART NO. SEE CHART		SDA-73644-****	
FILE NAME S73644X1 DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
DIV. DA		SIZE B	

DIMENSIONS SHOWN (METRIC) INCH	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°	
3 PLACE	± N/A ---
2 PLACE	± N/A ± 0.05
1 PLACE	--- ± 0.10
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
DRWG. BY: JRR	CHK'D. BY: SMR
APP'D. BY: CAB	SCALE 2 : 1

REVISED ECR UDT2000-0348 BINGHAM 99/10/12		I
REVISED ECR UDT1999-0662 BINGHAM 99/05/18		H
REVISED ECR UDT1999-0476 BINGHAM 98/12/21		G
REVISED ECR UDT2003-2260 THOMAS 03/04/25		J
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 <table><thead><tr><th>NUMBER</th><th>GUIDE POST LOCATION</th><th>POLAR KEY POSITION</th></tr></thead><tbody><tr><td>00</td><td>B</td><td rowspan="2">A</td></tr><tr><td>01</td><td>A</td></tr><tr><td>02</td><td>B</td><td rowspan="2">B</td></tr><tr><td>03</td><td>A</td></tr><tr><td>04</td><td>B</td><td rowspan="2">C</td></tr><tr><td>05</td><td>A</td></tr><tr><td>06</td><td>B</td><td rowspan="2">D</td></tr><tr><td>07</td><td>A</td></tr><tr><td>08</td><td>B</td><td rowspan="2">E</td></tr><tr><td>09</td><td>A</td></tr><tr><td>10</td><td>B</td><td rowspan="2">F</td></tr><tr><td>11</td><td>A</td></tr><tr><td>12</td><td>B</td><td rowspan="2">G</td></tr><tr><td>13</td><td>A</td></tr><tr><td>14</td><td>B</td><td rowspan="2">H</td></tr><tr><td>15</td><td>A</td></tr><tr><td>16</td><td>B</td><td rowspan="3">N/A</td></tr><tr><td>17</td><td>A</td></tr><tr><td>18</td><td>N/A</td></tr></tbody></table>					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
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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><thead><tr><th></th><th>INCH</th><th>METRIC</th></tr></thead><tbody><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></tbody></table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DRWG. BY JRR CHK'D. BY SMR APP'D. BY CAB SCALE ---:--- ▽ = 0 ▼ = 0 REVISE ONLY ON CAD SYSTEM TITLE SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION moLEX MOLEX INCORPORATED LITTLE ROCK, AR 72069 SHEET NO. 2 DATE 96/12/18 PART NO. SEE CHART SDA-73644-***** 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						INCH	METRIC	3 PLACE	± N/A	---	2 PLACE	± N/A	± N/A	1 PLACE	---	± N/A																																						
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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JONHON

«JONHON» (основан в 1970 г.)

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А