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Part Number: 0736442208
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 E, 72 Circuits

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

Agency Certification

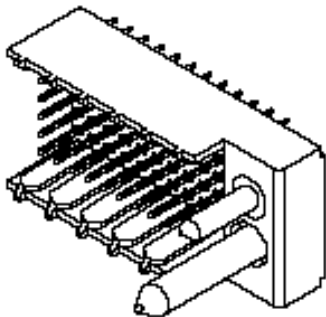
CSA LR19980
UL E29179

General

Product Family Backplane Connectors
Series 73644
Application Backplane
Comments Standard Press-Fit, Tin/Lead (SnPb)
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 Tin
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) 15
Plating min: Termination (µm) 0.375
Polarized to PCB No



Series

image - Reference only

EU RoHS
Not RoHS Compliant
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	
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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73644	4	3	2	73644
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.				

NOTES:

F

E

D

C

B

10 9 8 7 6

The drawing illustrates the 73644 connector assembly. The isometric view shows the connector with its pins and housing. The side view shows the connector's profile with dimensions: (10.00) for the main body length, 5X2.00 for the pin spacing, 2.00 for the pin height, 0.92 for the pin diameter, and (B) for the total length. The cross-sectional view shows the internal structure with dimensions: A±0.10 for the housing width, 14.35±0.15 for the pin length, 7.05±0.20 for the pin diameter, 6.50 for the pin spacing, and 0.42/0.39 for the pin tip dimensions. Feature callouts include: (10.00) for the main body length, 5X2.00 for the pin spacing, 2.00 for the pin height, 0.92 for the pin diameter, (B) for the total length, A±0.10 for the housing width, 14.35±0.15 for the pin length, 7.05±0.20 for the pin diameter, 6.50 for the pin spacing, 0.42/0.39 for the pin tip dimensions, (0.43) for the pin diameter, (15.7) for the pin spacing, (0.15) for the pin diameter, (0.30) for the pin diameter, and (0.40) for the pin diameter. The drawing also includes a callout for the connector type: 73644-**** WW/YY.

(10.00)

5X2.00

2.00

0.92

(B)

A±0.10

14.35±0.15

7.05±0.20

6.50

0.42

0.39

M±0.25

(0.43)

(15.7)

(0.15)

(0.30)

(0.40)

73644-**** WW/YY

SEE NOTE 8

A					I	REVISED ECR UDT2000-0348 BINGHAM 99/10/12	DIMENSIONS SHOWN (IMPERIAL) INCH		▽ = 0 ▼ = 0		REVISE ONLY ON CAD SYSTEM																	
					H	REVISED ECR UDT1999-0662 BINGHAM 99/05/18	UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°		TITLE SALES ASSY, HDM BACKPLANE MODULE, POLAR/GUIDE OPTION																			
					J	REVISED ECR UCP2003-2260 THOMAS 03/04/25	<table border="1"> <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>± 0.05</td> </tr> <tr> <td>1 PLACE</td> <td>---</td> <td>± 0.10</td> </tr> </tbody> </table>			INCH	METRIC	3 PLACE	± N/A	---	2 PLACE	± N/A	± 0.05	1 PLACE	---	± 0.10	MOLEX INCORPORATED LITTLE, ILL. 60532 U.S.A.				SHEET NO. 1 OF 2		DATE 96/12/18	
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				G	REVISED ECR UDT1999-0476 BINGHAM 98/12/21	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PART NO. SEE CHART		DRWG. NO. SDA-73644-*****																		
LTR.					REVISIONS	LTR.		REVISIONS		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												
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	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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	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																																																									
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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