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Part Number: 0736443004
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 C, 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, 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 Yes
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
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	
HDM® Backplane	0622005703
Insertion Head for	
144 Positions	
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.

PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 2.50 MIN

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED
TOLERANCES: ANGULAR ± 1/2°

	INCH	METRIC
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

REVISIONS ONLY ON CAD SYSTEM

TITLE

SALES ASSY, HDM BACKPLANE
MODULE, POLAR/GUIDE OPTION

MOLEX INCORPORATED LITSE,ILL. 60532	SHEET NO. 1 OF 2	DATE 96/12/18
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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
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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				
							LOCATION A LOCATION B				
							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				
							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° INCH METRIC 3 PLACE ± N/A --- 2 PLACE ± N/A ± N/A 1 PLACE --- ± N/A 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 FILE NAME S73644X2.DGN THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.				
							SEE CHART SDA-73644-***** DRWG. NO. DA SIZE B				
	10	9	8	7	6	5	4	3	2	1	