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Part Number: 0736440003
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 B, 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

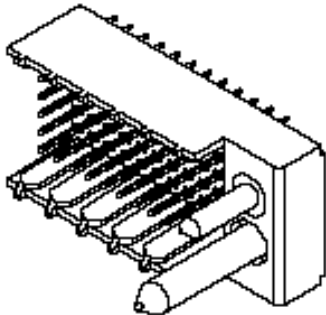


image - Reference only

Series

EU RoHS Compliance Status Not Reviewed REACH SVHC Not Reviewed Halogen-Free Status Not Reviewed	China RoHS
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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-****

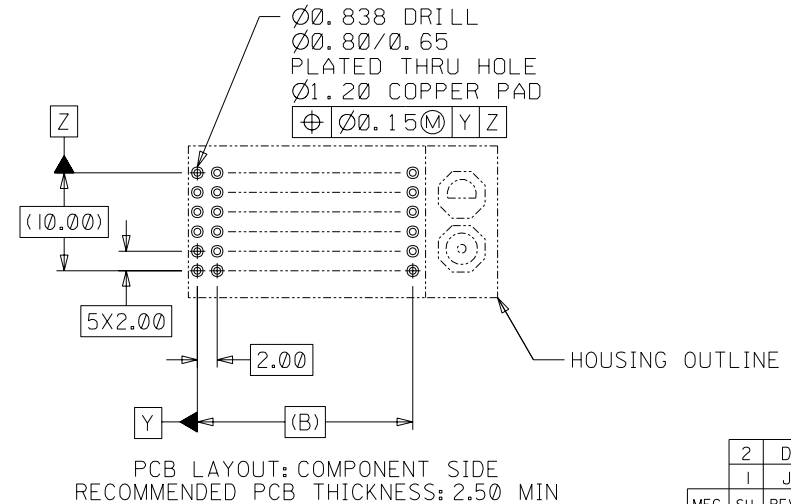
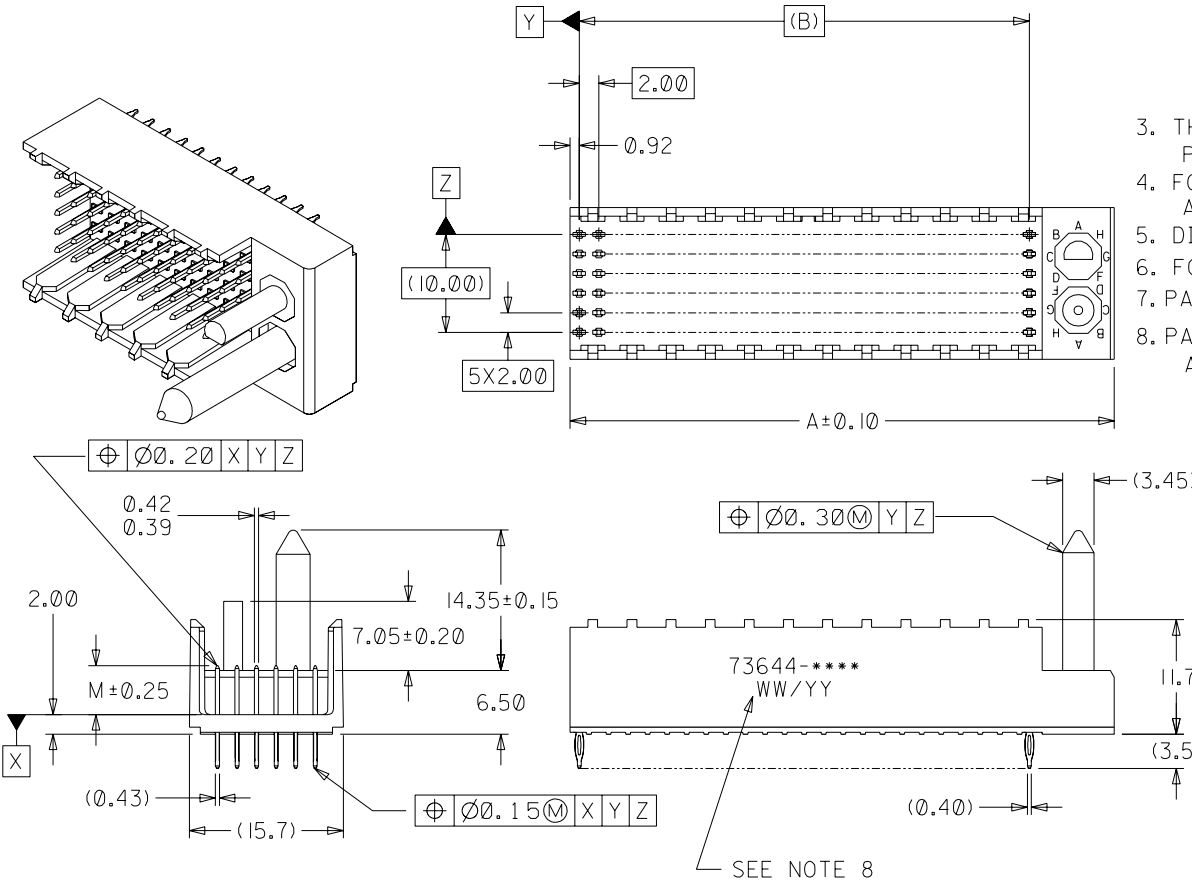
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NOTES:

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
LISLE, ILL. 60532
SHEET NO. 1 OF 2
DATE 96/12/18

PART NO. SEE CHART
SDA-73644-****

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO
MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

DIV. DA
SIZE B

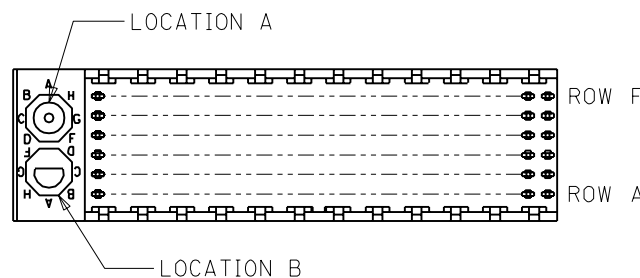
10		9	8	7	6		7364
F	MATERIAL NUMBER	NUMBER OF SIGNAL CONTACTS	PLATING		DIM "A"	DIM "B"	DIM "M"
	73644-00**	72	SELECTIVE GOLD/GOLD FLASH		31.60	22.00	5.00
	73644-01**	72	SELECTIVE GOLD/GOLD FLASH		31.60	22.00	5.50
	73644-02**	72	SELECTIVE GOLD/GOLD FLASH		31.60	22.00	6.00
	73644-10**	144	SELECTIVE GOLD/GOLD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

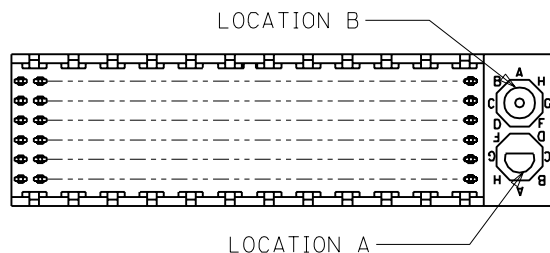
73644- * * * *

0 = 72-CIRCUIT, GOLD/GOLD FLASH
1 = 144-CIRCUIT, GOLD/GOLD FLASH
2 = 72-CIRCUIT, GOLD/TIN-LEAD
3 = 144-CIRCUIT, GOLD/TIN-LEAD

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0 = 5.00 MATING LENGTH
1 = 5.50 MATING LENGTH
2 = 6.00 MATING LENGTH
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REF. MATERIAL NUMBER 73644-0009
GUIDE PIN IS IN LOCATION A
POLARIZING KEY IS IN LOCATION B, POSITION 5



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	

[illegible]