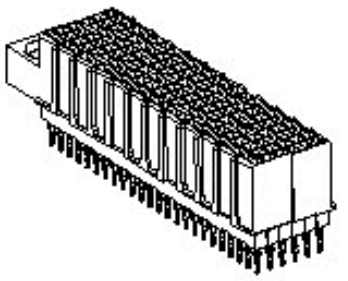
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This document was generated on 05/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0743003155
Status: Active
Overview: hdm
Description: 2.00mm (.079") Pitch HDM® Board-to-Board Daughtercard Receptacle, Vertical, Signal Module, with Guide, 144 Circuits, Mounted Height 15.00mm (.591"), Press-Fit Pin Length 3.50mm (.138")



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-73780-999 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Backplane Connectors
Series	74300
Application	Daughtercard, Mezzanine
Component Type	PCB Receptacle
Overview	hdm
Product Name	HDM®
Style	N/A

Physical

Circuits (Loaded)	144
Circuits (maximum)	144
Color - Resin	Black
Durability (mating cycles max)	250
First Mate / Last Break	No
Guide to Mating Part	Yes
Keying to Mating Part	None
Material - Metal	Copper-Nickel-Tin
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
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	None
PCB Thickness Recommended (in)	0.063 In
PCB Thickness Recommended (mm)	1.60 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)	0.76
Plating min: Termination (µin)	30
Plating min: Termination (µm)	.88
Polarized to PCB	No
Stackable	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Reviewed

China RoHS
50
Pb

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
74300Series

Mates With
HDM® Board-to-Board Backplane Header
73642 , 73643 , 73644 , 74349 , 74428 , 73769 , 73781 , 73770 , 73782 , 73783 , 73771

Electrical

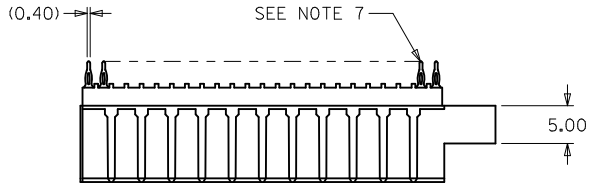
Current - Maximum per Contact	1A
Data Rate	1.0 Gbps
Real Signals (per 25mm)	76
Shielded	Yes
Voltage - Maximum	250V AC

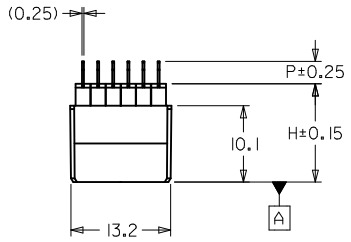
Material Info

Reference - Drawing Numbers

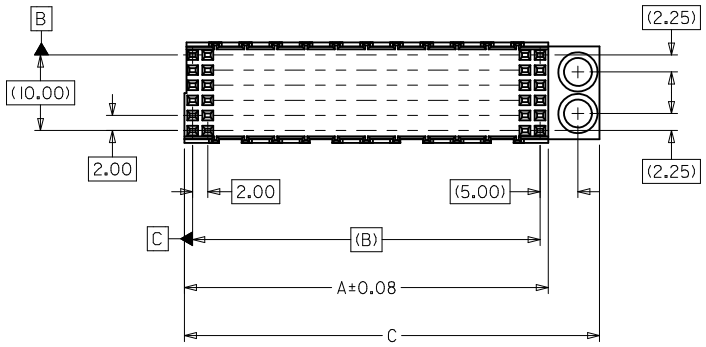
Product Specification	PS-73780-999
Sales Drawing	SD-74300-002

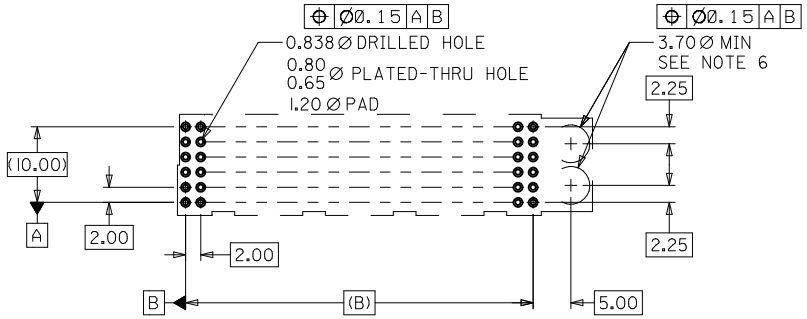
HDM and High Density Metric are trademarks of Amphenol Corporation





NOTES:
1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP) BLACK
TERMINALS - HIGH PERFORMANCE COPPER ALLOY
2. FINISH: SELECTIVE GOLD (Au) IN CONTACT AREA.
2.50 MICROMETER MINIMUM THICKNESS.
SELECTIVE TIN/LEAD (Sn/Pb) ON PRESS FIT TAILS.
0.88 MICROMETER MINIMUM THICKNESS.
NICKEL OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPEC PS-73780-999.
4. 144 CKT STACKING MODULE SHOWN FOR ILLUSTRATION PURPOSES.
SEE CHART FOR TABULATED DIMENSIONS.
5. 74300-***7 PARTS TO BE PACKAGED IN TUBES PER PK-70873-0872.
ALL OTHER PARTS TO BE PACKAGED IN TUBES PER PK-70873-0900.
6. DEPENDING ON APPLICATION, THIS HOLE MAY BE NEEDED FOR
CLEARANCE OF BACKPLANE GUIDE PIN. LOCATION OF HOLE WILL
DEPEND ON LOCATION OF GUIDE PIN.
7. TRUE POSITION OF TAILS IS INSPECTED USING GAGE NUMBER
73727-0014.
8. THIS PART CONFORMS TO MOLEX COSMETIC SPEC PS-45499-002 CLASS B.





PCB LAYOUT: COMPONENT SIDE

MATERIAL NUMBER ASSIGNMENT

74300 - * 1 * *

2 = 72-CKT PRESS-FIT
3 = 144-CKT PRESS-FIT

DIM "P"
4 = 3.00
5 = 3.50
6 = 4.00

DIM "H"
3 = 13.0
4 = 14.0
5 = 15.0
6 = 16.0
7 = 17.0

MATERIAL NUMBER	CIRCUIT SIZE	DIM A	DIM B	DIM C
74300 - 31**	144	48.17	46.00	54.95
74300 - 21**	72	24.17	22.00	30.95

UPDATE TO LEADED ONLY
EC NO: UCP2010-1860 2010/01/25
DRWN:JMELTON 2006/02/14
CH'KD:SDANNELLEY 2010/02/08
APPR:SMILLER
DESCRIPTION
G
REV

QUALITY SYMBOLS
F =0
F =0
F =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: J JONIAK DATE: 2006/02/14
CHECKED BY: SREED DATE: 2006/02/14
APPROVED BY: SMILLER DATE: 2010/02/08
MATERIAL NO.: SEE TABLE

TITLE: SALES ASSY, HDM LEADED DAUGHTERCARD STACKING MODULE, GUIDE OPTION

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DOCUMENT NO.: SD-74300-002
SHEET NO.: 1 OF 1
SIZE: C

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