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Part Number: [0743015103](#)
Status: **Active**
Overview: [hdm](#)
Description: 2.00mm (.079") Pitch HDM® Board-to-Board Backplane Header, Vertical, SMC, Press-Fit, Extended PC Tail, Polar/Guide Option, 144 Circuits

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

General	
Product Family	Backplane Connectors
Series	74301
Application	Backplane
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
Guide to Mating Part	No
Keying to Mating Part	None
Material - Metal	Phosphor Bronze, Stainless Steel
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)	0.276 In
PC Tail Length (mm)	7.00 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
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-55°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical



EU RoHS
Compliance Status
Not Reviewed
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
[74301Series](#)

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-70873-0868
Sales Drawing	SD-74301-001

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This document was generated on 05/15/2010

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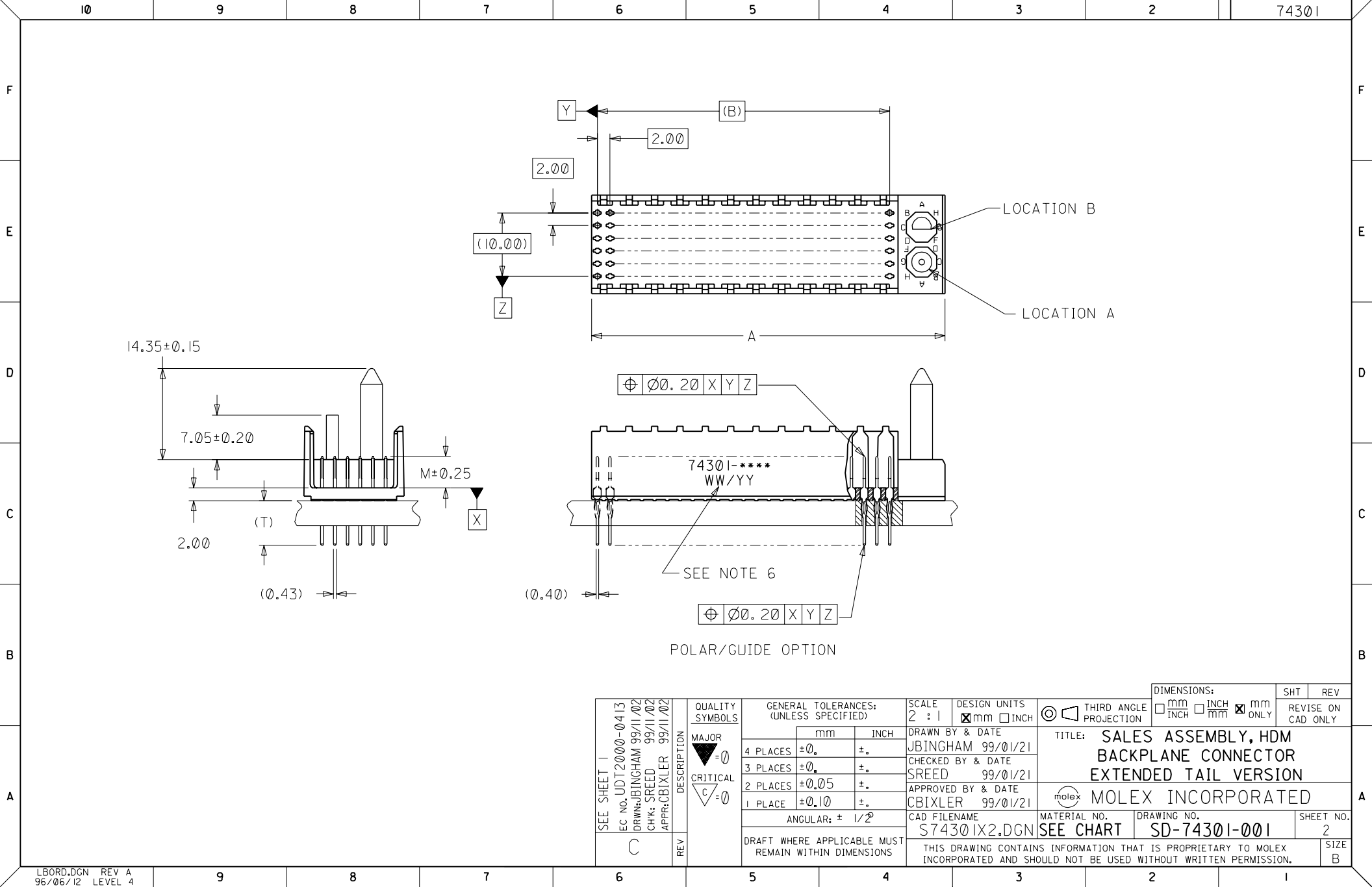
- NOTES:
1. MATERIALS: HOUSING-LIQUID CRYSTAL POLYMER (LCP),
GLASS-FILLED, UL94V-0, COLOR: BLACK,
CONTACT-PHOSPHOR BRONZE.
 2. FINISH: SELECTIVE GOLD (Au) IN CONTACT AREA,
0.00076mm MINIMUM THICKNESS, SELECTIVE TIN/LEAD (Sn/Pb) ON TAILS,
NICKEL (Ni) OVERALL.
 3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION
PS-73670-9999.
 4. PACKAGED PER PK-70873-0868.
 5. PARTS MARKED WITH PART NUMBER AND DATE CODE,
ON EITHER SIDE, APPROXIMATELY WHERE SHOWN.



OPEN END OPTION

END WALL OPTION

REVISED EC NO. UCP2003-2260 DRWN: THOMAS 03/04/25 CHK: BINGHAM 03/04/25 APPR: REED 03/04/25 D	DESCRIPTION MAJOR CRITICAL	QUALITY SYMBOLS		GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE 2 : 1	DESIGN UNITS ☒ mm ☐ INCH	 THIRD ANGLE PROJECTION	☐ mm INCH	☐ INCH mm	☒ mm ONLY	REVISE ON CAD ONLY	
				mm	INCH	DRAWN BY & DATE JBINGHAM 99/01/21		TITLE: SALES ASSEMBLY, HDM BACKPLANE CONNECTOR EXTENDED TAIL VERSION					
				4 PLACES	±0.	±.	CHECKED BY & DATE SREED 99/01/21		MOLEX INCORPORATED				
				3 PLACES	±0.	±.	APPROVED BY & DATE CBIXLER 99/01/21						
				2 PLACES	±0.05	±.	CAD FILENAME S74301X1.DGN		MATERIAL NO. SEE CHART		DRAWING NO. SD-74301-001		SHEET NO. 1 OF 3
				1 PLACE	±0.10	±.	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.						SIZE B
				ANGULAR: ± 1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							



MATERIAL NUMBER ASSIGNMENT

0 = 72-CIRCUIT OPEN END
1 = 144-CIRCUIT OPEN END
2 = 72-CIRCUIT END WALL
3 = 144-CIRCUIT END WALL
4 = 72-CIRCUIT POALR/GUIDE
5 = 144-CIRCUIT POLAR/GUIDE

0 = 5.0mm MATING, 7.0mm TAIL
1 = 5.5mm MATING, 7.0mm TAIL
2 = 6.0mm MATING, 7.0mm TAIL

74301- * * * *

NUMBER	GUIDE POST LOCATION	POLAR KEY POSITION
00	N/A	N/A
01	B	A
02	A	
03	B	B
04	A	
05	B	C
06	A	
07	B	D
08	A	
09	B	E
10	A	
11	B	F
12	A	
13	B	G
14	A	
15	B	H
16	A	
17	B	N/A
18	A	

PART NUMBER	DIM A	DIM B	DIM M	DIM T
74301-0000	23.8	22.00	5.00	7.00
74301-0100	23.8	22.00	5.50	7.00
74301-0200	23.8	22.00	6.00	7.00
74301-1000	47.8	46.00	5.00	7.00
74301-1100	47.8	46.00	5.50	7.00
74301-1200	47.8	46.00	6.00	7.00
74301-2000	27.6	22.00	5.00	7.00
74301-2100	27.6	22.00	5.50	7.00
74301-2200	27.6	22.00	6.00	7.00
74301-3000	51.6	46.00	5.00	7.00
74301-3100	51.6	46.00	5.50	7.00
74301-3200	51.6	46.00	6.00	7.00
74301-40**	31.6	22.00	5.00	7.00
74301-41**	31.6	22.00	5.50	7.00
74301-42**	31.6	22.00	6.00	7.00
74301-50**	55.6	46.00	5.00	7.00
74301-51**	55.6	46.00	5.50	7.00
74301-52**	55.6	46.00	6.00	7.00



PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: 2.50 MIN.

SEE SHEET 1
EC NO. UDT2000-0413
DRWN:JBINGHAM 99/11/02
CHK: SREED 99/11/02
APPR:CBIXLER 99/11/02

DESCRIPTION
MAJOR
CRITICAL

REV

GENERAL TOLERANCES:
(UNLESS SPECIFIED)

mm

INCH

4 PLACES ±0. ±.

3 PLACES ±0. ±.

2 PLACES ±0.05 ±.

1 PLACE ±0.10 ±.

ANGULAR: ± 1/2°

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

SCALE
2 : 1

DESIGN UNITS
☒mm ☐INCH

DRAWN BY & DATE
JBINGHAM 99/01/21

CHECKED BY & DATE
SREED 99/01/21

APPROVED BY & DATE
CBIXLER 99/01/21

CAD FILENAME
S74301X3.DGN

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DIMENSIONS:
☐mm ☐INCH ☒mm ONLY

SHT
REV

REVISE ON
CAD ONLY

TITLE:
SALES ASSEMBLY, HDM
BACKPLANE CONNECTOR
EXTENDED TAIL VERSION

MOLEX
MOLEX INCORPORATED

MATERIAL NO.
SEE CHART

DRAWING NO.
SD-74301-001

SHEET NO.
3

SIZE
B