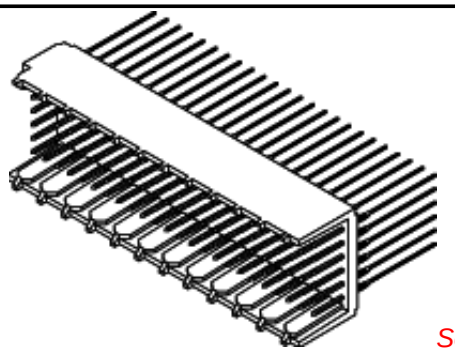
molex
one company > a world of innovation

This document was generated on 05/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0743015104
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



Series image - Reference only

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

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

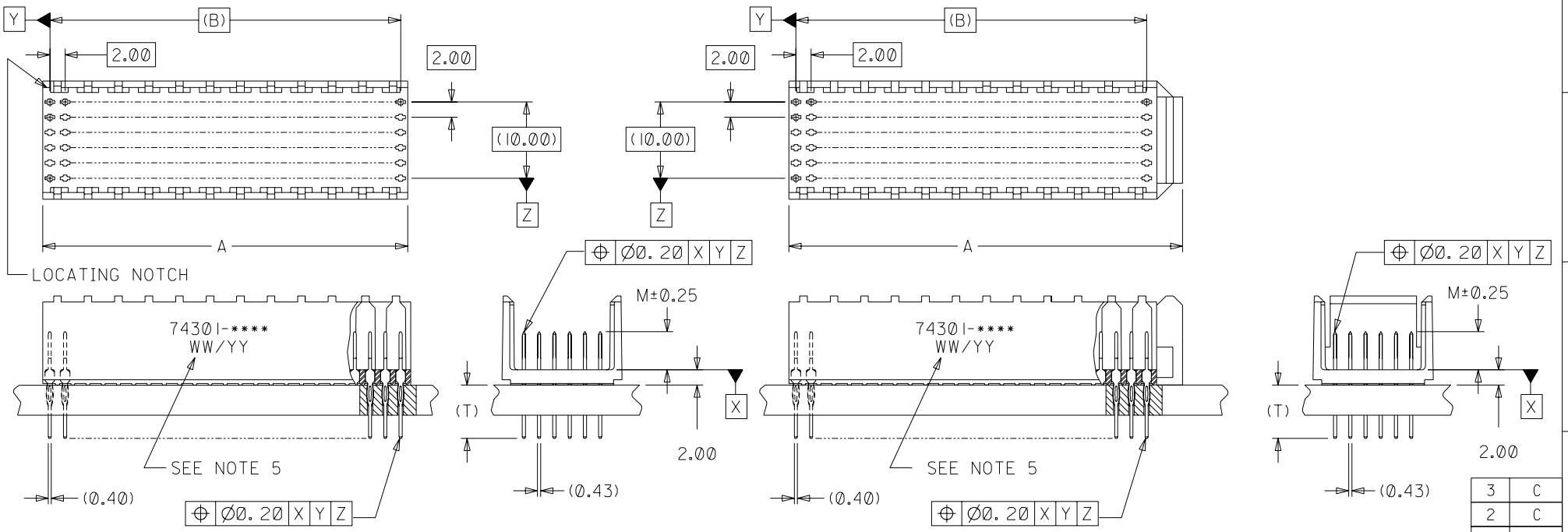
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-0868
Sales Drawing	SD-74301-001

HDM and High Density Metric are trademarks of Amphenol Corporation

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 THCKNESS, 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

3	C
2	C
1	D

SHT	REV
REVISE ON CAD ONLY	

REVISED	EC NO.	DESCRIPTION
	UCP2003-2260	
DRWN: THOMAS	03/04/25	
CH'K: BINGHAM	03/04/25	
APPR: REED	03/04/25	
D		REV

QUALITY SYMBOLS
MAJOR ▼ =0
CRITICAL (C) =0

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
THIRD ANGLE PROJECTION
DIMENSIONS: ☐ mm/INCH ☐ INCH/mm ☒ mm ONLY

DRAWN BY & DATE: JBINGHAM 99/01/21
CHECKED BY & DATE: SREED 99/01/21
APPROVED BY & DATE: CBIXLER 99/01/21

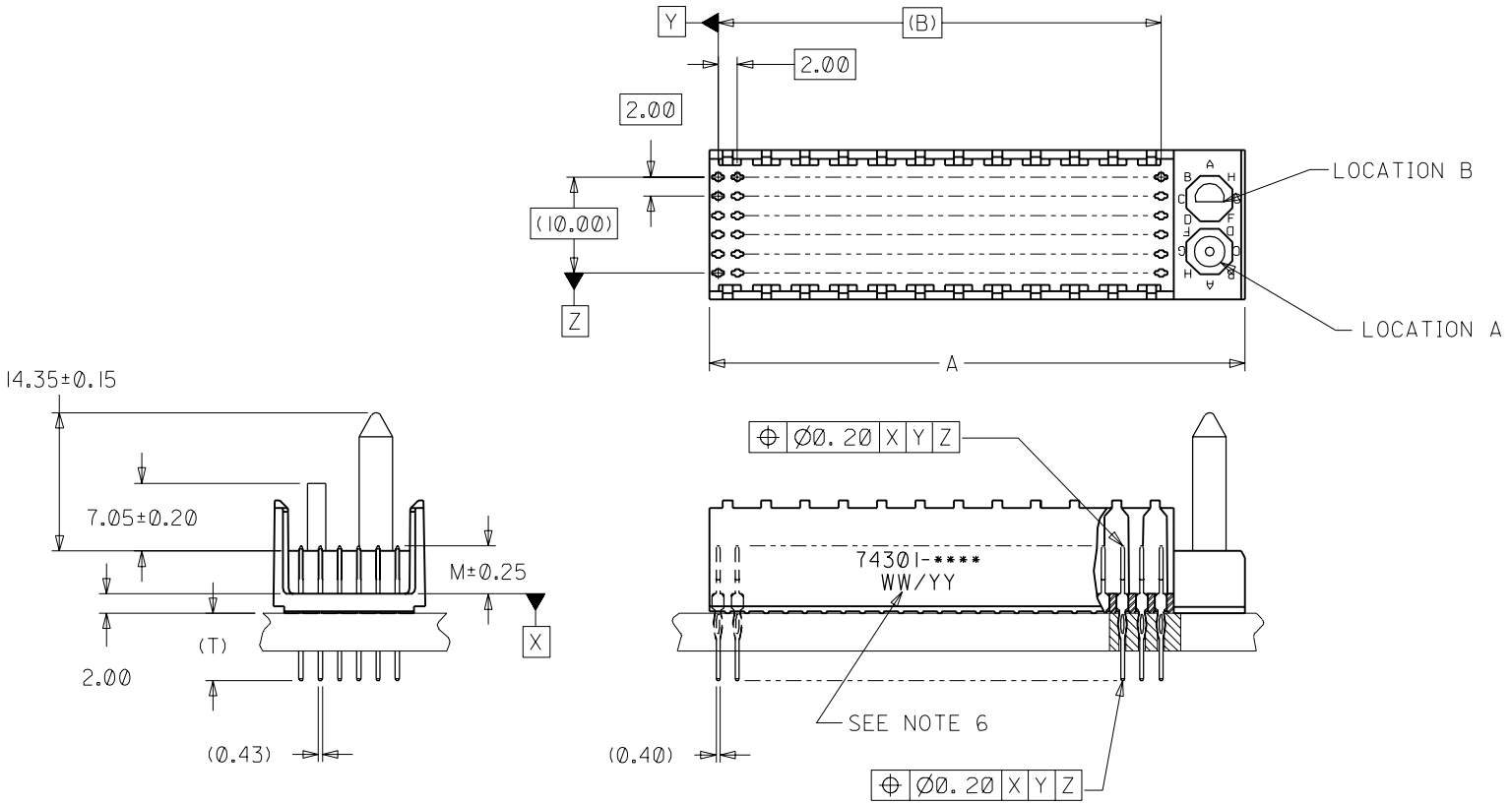
TITLE: SALES ASSEMBLY, HDM BACKPLANE CONNECTOR EXTENDED TAIL VERSION

molex MOLEX INCORPORATED

CAD FILENAME	MATERIAL NO.	DRAWING NO.	SHEET NO.
S74301X1.DGN	SEE CHART	SD-74301-001	1 OF 3

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

SIZE B



POLAR/GUIDE OPTION

SEE SHEET 1
EC NO: UDT20000-0413
DRWN: JBINGHAM 99/11/02
CH'K: SREED 99/11/02
APPR: CBIXLER 99/11/02
DESCRIPTION
REV
C

QUALITY SYMBOLS
MAJOR ▼ = 0
CRITICAL ▽C = 0

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
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV
REVISE ON CAD ONLY

DRAWN BY & DATE: JBINGHAM 99/01/21
CHECKED BY & DATE: SREED 99/01/21
APPROVED BY & DATE: CBIXLER 99/01/21

TITLE: SALES ASSEMBLY, HDM BACKPLANE CONNECTOR EXTENDED TAIL VERSION

molex MOLEX INCORPORATED

CAD FILENAME: S7430IX2.DGN
MATERIAL NO.: SEE CHART
DRAWING NO.: SD-74301-001
SHEET NO.: 2
SIZE: B

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

MATERIAL NUMBER ASSIGNMENT

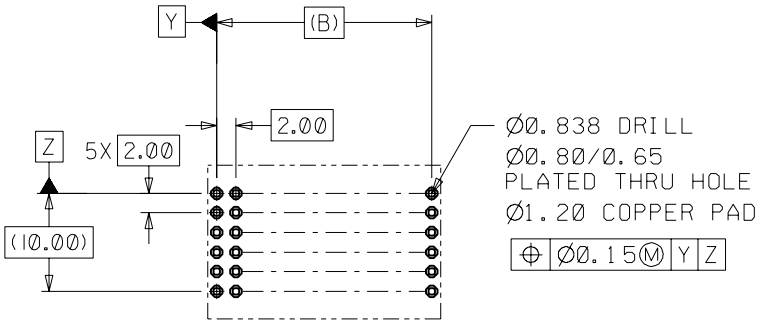
0 = 72-CIRCUIT OPEN END
1 = 144-CIRCUIT OPEN END
2 = 72-CIRCUIT END WALL
3 = 144-CIRCUIT END WALL
4 = 72-CIRCUIT POALR/GUIDE
5 = 144-CIRCUIT POLAR/GUIDE

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: UDT20000-0413
DRWN: JBINGHAM 99/11/02
CHK: SREED 99/11/02
APPR: CBIXLER 99/11/02
DESCRIPTION
REV
C

QUALITY SYMBOLS
MAJOR ▼=0
CRITICAL (C)=0

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
THIRD ANGLE PROJECTION
DIMENSIONS: ☐mm/INCH ☐INCH/mm ☒mm ONLY
SHT REV
REVISE ON CAD ONLY

DRAWN BY & DATE: JBINGHAM 99/01/21
CHECKED BY & DATE: SREED 99/01/21
APPROVED BY & DATE: CBIXLER 99/01/21

TITLE: SALES ASSEMBLY, HDM BACKPLANE CONNECTOR EXTENDED TAIL VERSION

molex MOLEX INCORPORATED

CAD FILENAME: S74301X3.DGN
MATERIAL NO.: SEE CHART
DRAWING NO.: SD-74301-001
SHEET NO.: 3
SIZE: B

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

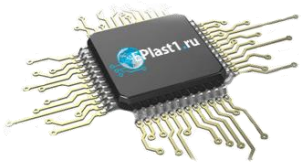
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.