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Part Number: [0746502602](#)
Status: **Active**
Overview: [vhdm__hsd](#)
Description: 2.00mm (.079") Pitch 8-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Signal Pin End Version, Advanced Mate Shield, 150 Circuits, Pin Length 6.25mm (.246")

Documents:
[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

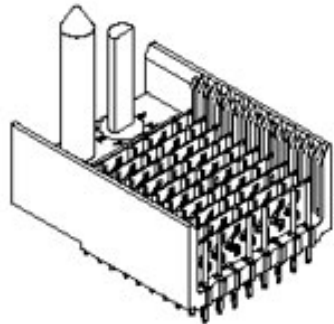
CSA LR19980

General

Product Family	Backplane Connectors
Series	74650
Application	Backplane
Application Tooling Documents	http://www.molex.com/pdm_docs/ats/TM-622010999.pdf >Tooling Manual
Comments	No Keying Position
Component Type	PCB Header
Overview	vhdm__hsd
Product Name	VHDM-HSD™
Style	N/A

Physical

Circuits (Loaded)	150
Circuits (maximum)	150
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Flammability	94V-0
Guide to Mating Part	Yes
Keying to Mating Part	None
Material - Metal	Copper-Nickel-Silicon, High Performance Alloy (HPA), Stainless Steel
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
Material - Resin	High Temperature Thermoplastic
Number of Columns	25
Number of Pairs	Open Pin Field
Number of Rows	8
Orientation	Vertical
PC Tail Length (in)	0.098 In
PC Tail Length (mm)	2.50 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.070 In
PCB Thickness Recommended (mm)	1.80 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



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption
REACH SVHC
Not Reviewed
Halogen-Free
Status

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
[74650Series](#)

Mates With
HSD Daughtercards [74680](#) , [74686](#)

Use With
Daughtercard Modules

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 #
VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")	0622020206

Plating min: Termination (μin)	30
Plating min: Termination (μm)	0.75
Polarized to PCB	Yes
Stackable	Yes
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	5.0 Gbps
Real Signals (per 25mm)	72
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	250V

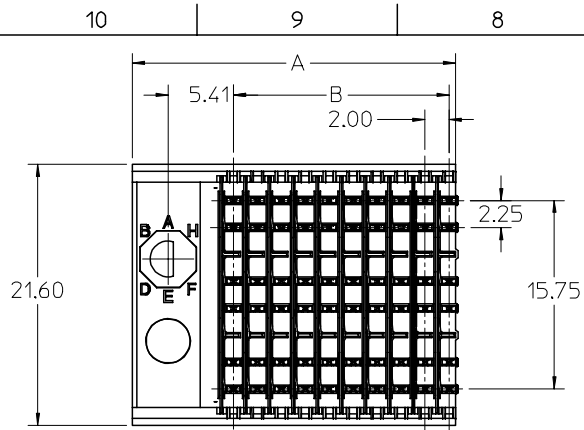
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-74061-003
Sales Drawing	SD-74650-003

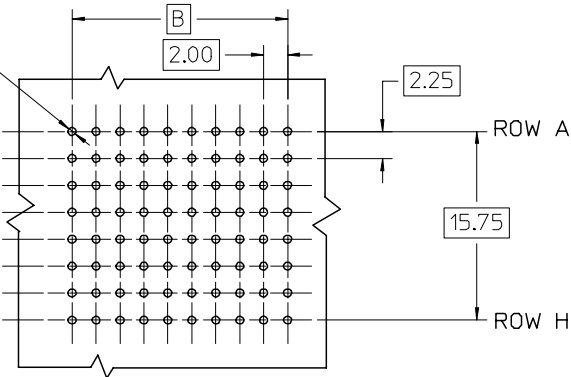
VHDM-HSD is a trademark of Amphenol Corporation

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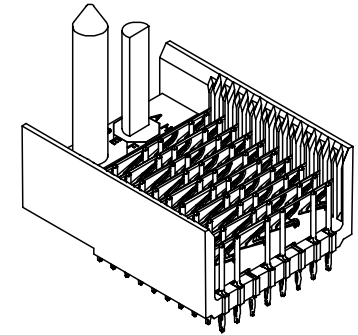


$\varnothing 0.66$ DRILL
 $\varnothing 0.56 \pm 0.05$ PTH
 $\varnothing 1.00$ PAD
 $\varnothing 0.10$

SIGNAL ROW
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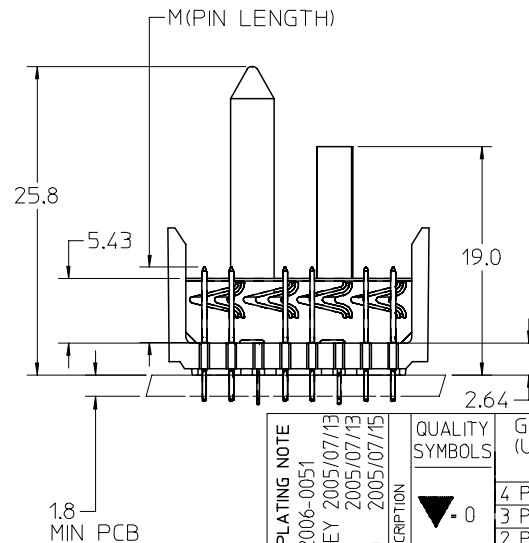
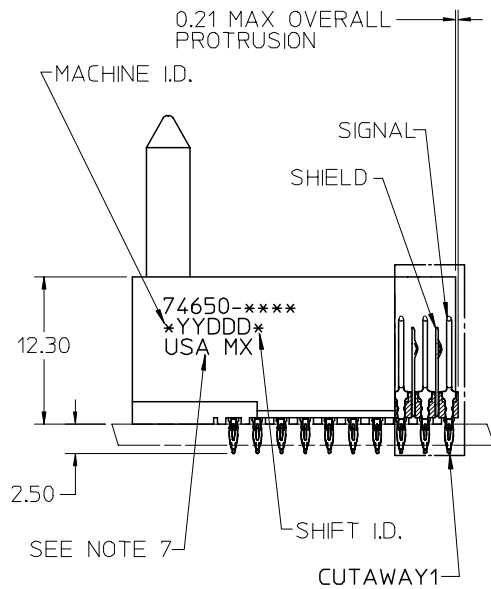


BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION



NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED.
UL 94-0. COLOR BLACK. SIGNAL & SHIELD -HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES:
CONTACT AREA: SELECTIVE GOLD (Au)
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74061-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.



REVISED - PLATING NOTE EC NO: UCP2006-0051 DRWN: KMULVEY 2005/07/13 CHKD: 2005/07/13 APPR: SREED 2005/07/15	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
					DIMENSION STYLE MM ONLY			TITLE HSD SALES ASSEMBLY 8 ROW ADVANCED MATE SIGNAL END BACKPLANE		
		 -0	mm	INCH	DRAWN BY MQWANG	DATE 2001/05/21				
		 -0	4 PLACES	± --- ± ---	CHECKED BY JLAURX	DATE 2001/05/25	 MOLEX INCORPORATED			
			3 PLACES	± --- ± ---	APPROVED BY CBIXLER	DATE 2001/05/25				MATERIAL NO.
			2 PLACES	± --- ± ---	DRAFT WHERE APPLICABLE			SEE SHEET 2	SD-74650-003	1 OF 2
			1 PLACE	± --- ± ---	MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
			ANGULAR ±1/2°							

F
E
D
C
B
A

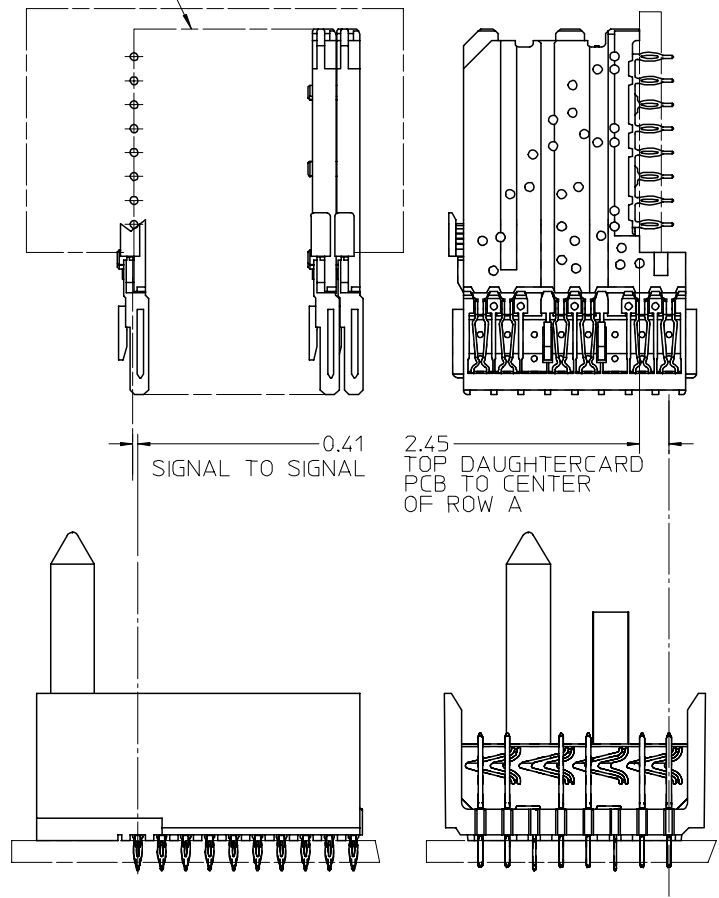
M/N 74650-()	---0*	---1*	---2*	---3*	---4*	---5*	---6*	---7*	---8*
KEYING PIN ORIENTATION	0	A	B	C	D	E	F	G	H

74650-****

NUMBER OF COLUMNS/
PLATING
11=10 COLUMN TIN/LEAD
26=25 COLUMN TIN/LEAD
91=10 COLUMN MATTE TIN
86=25 COLUMN MATTE TIN

CONTACT LOAD
(PIN LENGTH)
1 & 6 = 4.75
2 & 7 = 6.25
3 & 8 = 4.25
4 & 9 = 5.15

DAUGHTERCARD
CONNECTOR SIDE



PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	Sn (um) THICKNESS
74650-*1*1	10	60	10	27.00	18.00	4.75	0.76	0.76-152
74650-*1*6							1.27	
74650-*6*1	25	150	25	57.00	48.00	4.75	0.76	
74650-*6*6							1.27	
74650-*1*2	10	60	10	27.00	18.00	6.25	0.76	
74650-*1*7							1.27	
74650-*6*2	25	150	25	57.00	48.00	6.25	0.76	
74650-*6*7							1.27	
74650-*1*3	10	60	10	27.00	18.00	4.25	0.76	
74650-*1*8							1.27	
74650-*6*3	25	150	25	57.00	48.00	4.25	0.76	
74650-*6*8							1.27	
74650-*1*4	10	60	10	27.00	18.00	5.15	0.76	
74650-*1*9							1.27	
74650-*6*4	25	150	25	57.00	48.00	5.15	0.76	
74650-*6*9							1.27	

SEE SHEET 1

EC NO: UCP2006-0051
DRWN:K MULVEY 2005/07/13
CHKD: 2005/07/13
APPR: SREED 2005/07/15

DESCRIPTION

REV

QUALITY SYMBOLS

▽ 0

▽ 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

SCALE 2.5:1

DESIGN UNITS METRIC

DIMENSION STYLE MM ONLY

DRAWN BY DATE

MO WANG 2001/05/21

CHECKED BY DATE

JLAURX 2001/05/25

APPROVED BY DATE

CBIXLER 2001/05/25

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THIRD ANGLE PROJECTION

REVISE ON CAD ONLY

TITLE

HSD SALES ASSEMBLY
8 ROW ADVANCED MATE
SIGNAL END BACKPLANE

MOLEX MOLEX INCORPORATED

MATERIAL NO. SEE TABLE

DOCUMENT NO. SD-74650-003

SHEET NO. 2 OF 2



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.