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Part Number: [0746502514](#)
Status: **Active**
Overview: [vhdm__hsd](#)
Description: 2.00mm (.079") Pitch 8-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Pin End Version, 150 Circuits, Pin Length 5.15mm (.203")

Documents:

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

Agency Certification

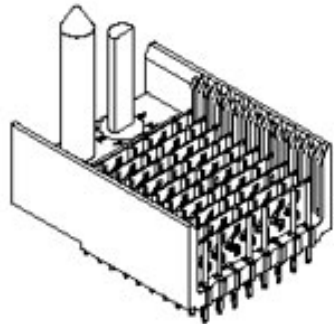
CSA LR19980

General

Product Family Backplane Connectors
Series [74650](#)
Application Backplane
Application Tooling Documents Tooling Manual
Comments Keying Position A
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 Yes
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
Plating min: Termination (µin) 30



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption
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

[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® Signal Pin	0622015700
Insertor Repair Tool	
VHDM® Insertion	0622020206
Module for Advanced Mate Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")	

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

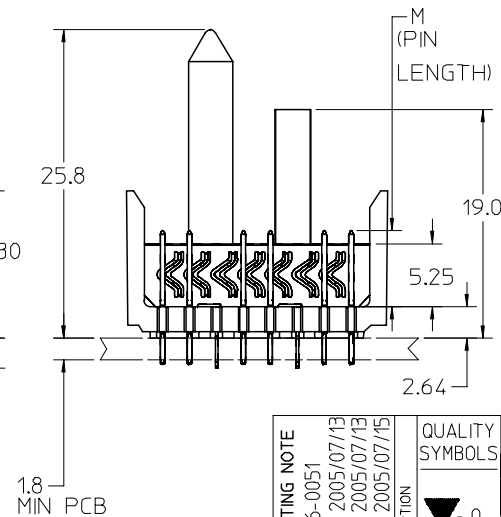
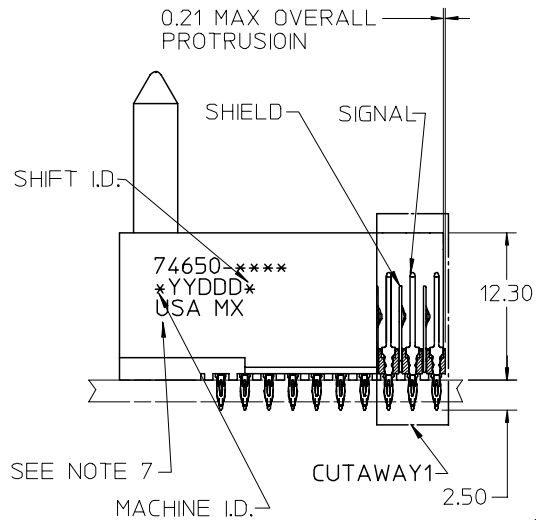
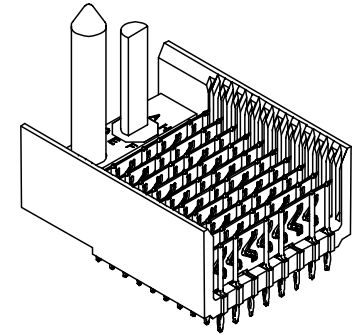
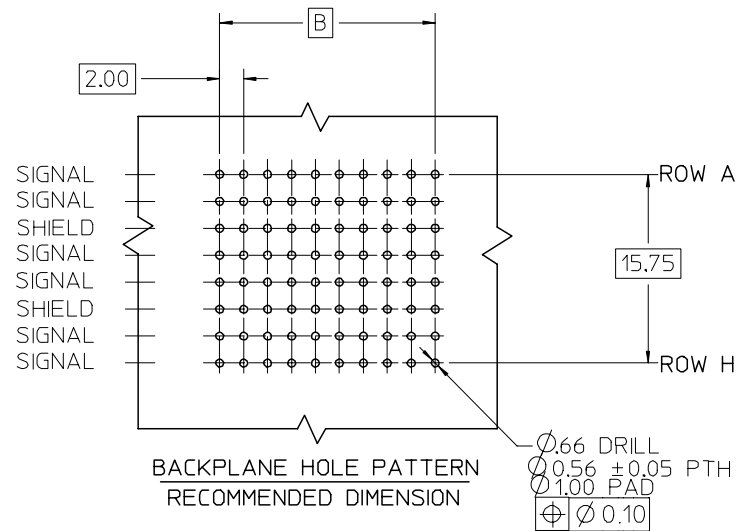
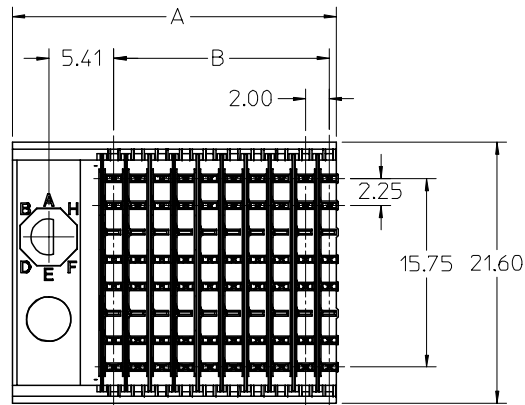
Reference - Drawing Numbers

Packaging Specification	PK-74061-003
Sales Drawing	SD-74650-002

VHDM-HSD is a trademark of Amphenol Corporation

This document was generated on 05/27/2010

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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	QUALITY SYMBOLS ▽ = 0 ◁ = 0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION	REVISE ON CAD ONLY	
			mm	INCH	DIMENSION STYLE MM ONLY			TITLE HSD SALES ASSEMBLY 8 ROW SIGNAL END BACKPLANE		
			4 PLACES	± ---	± ---	DRAWN BY MQWANG	DATE 2001/03/22	MOLEX INCORPORATED		
			3 PLACES	± ---	± ---	CHECKED BY JLAURX	DATE 2001/03/27			
			2 PLACES	± ---	± ---	APPROVED BY CBIXLER		DATE 2001/03/27	MATERIAL NO.	DOCUMENT NO.
1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				B	
		ANGULAR ±1/2°								

74650-

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

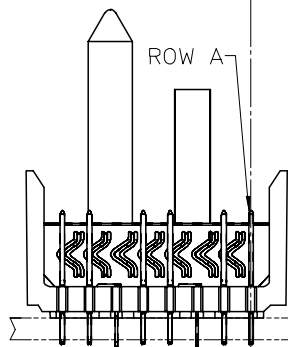
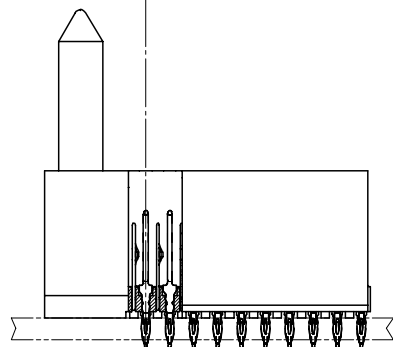
A technical drawing showing two vertical mechanical components. The component on the left has a series of seven circular features along its upper edge. A dashed line originates from the top of this component, extends horizontally to the right, and then turns vertically downwards to point at a specific feature on the component on the right. The components are shown in cross-section, revealing internal structures.

This technical drawing shows a detailed cross-section of a mechanical assembly. The central component is a vertical shaft or rotor, surrounded by a housing or stator. The assembly is secured with multiple bolts and nuts. A central shaft with a keyway is visible. The drawing includes various internal components, such as bearings or seals, and a complex arrangement of bolts and nuts. The overall structure appears to be a pump or motor component.

2.45 —————→
TOP DAUGHTERCARD
PCB TO CENTER OF
ROW A

ROW A

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A MAX	B	M	Au (um) MIN THICKNESS	Sn/Pb (um) THICKNESS
74650-✱0✱1	10	60	10	27.00	18.00	4.75	0.76	0.76-1.52
74650-✱0✱6							1.27	
74650-✱5✱1	25	150	25	57.00	48.00		0.76	
74650-✱5✱6							1.27	
74650-✱0✱2	10	60	10	27.00	18.00	6.25	0.76	
74650-✱0✱7							1.27	
74650-✱5✱2	25	150	25	57.00	48.00		0.76	
74650-✱5✱7							1.27	
74650-✱0✱3	10	60	10	27.00	18.00	4.25	0.76	
74650-✱0✱8							1.27	
74650-✱5✱3	25	150	25	57.00	48.00		0.76	
74650-✱5✱8							1.27	
74650-✱0✱4	10	60	10	27.00	18.00	5.15	0.76	
74650-✱0✱9							1.27	
74650-✱5✱4	25	150	25	57.00	48.00		0.76	
74650-✱5✱9							1.27	



QUALITY SYMBOLS

 = 0

 = 0

SCALE 2.5:1	DESIGN UNITS METRIC
DIMENSION STYLE MM ONLY	
DRAWN BY MQWANG	DATE 2001/03/2
CHECKED BY JLAURX	DATE 2001/03/2
APPROVED BY CBIXLER	DATE 2001/03/2
THIS DRAWING CONTAINS INCORPORATED AND SHOWN	

 THIRD ANGLE PROJECTION		REVISE ON CAD ONLY	
TITLE			
HSD SALES ASSEMBLY			
8 ROW SIGNAL END			
BACKPLANE			
 MOLEX INCORPORATED			
MATERIAL NO.		DOCUMENT NO.	
SHEET NO.			
SEE TABLE		SD-74650-002	
2		2 OF 2	
INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
B			



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

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