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Part Number:

0746491002

Status:

Active

Overview:

vhdm__hsd

Description:

2.00mm (.079") Pitch 8-Row VHDM-HSD™ Backplane Header, Open Module, 80 Circuits, Pin Length 6.25mm (.246")

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

Backplane Connectors

Series

74649

Application

Backplane

Application Tooling Documents

Tooling Manual

Comments

Open Header

Component Type

PCB Header

Overview

vhdm__hsd

Product Name

VHDM-HSD™

Style

N/A

Physical

Circuits (Loaded)

80

Circuits (maximum)

80

Color - Resin

Black

Durability (mating cycles max)

200

First Mate / Last Break

No

Flammability

94V-0

Guide to Mating Part

No

Keying to Mating Part

None

Material - Metal

Copper-Nickel-Silicon, High Performance Alloy (HPA)

Material - Plating Mating

Gold

Material - Plating Termination

Tin-Lead

Material - Resin

High Temperature Thermoplastic

Number of Columns

10

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

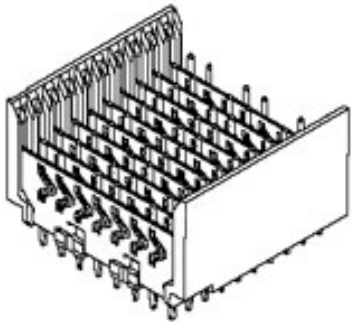


image - Reference only

Series

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

74649Series

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

0622020205

Module for Advanced Mate Signal Header, 8 Row by 10 Wide, 20.00mm (.787")

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

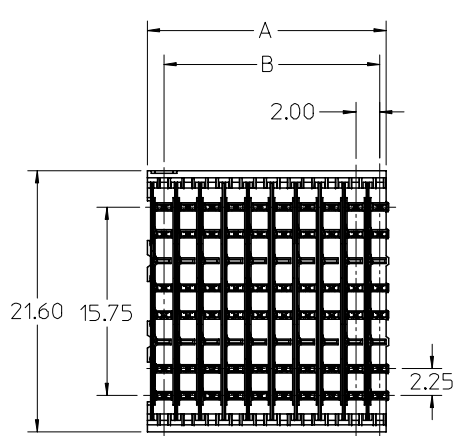
Reference - Drawing Numbers

Packaging Specification	PK-74060-003
Sales Drawing	SD-74649-002

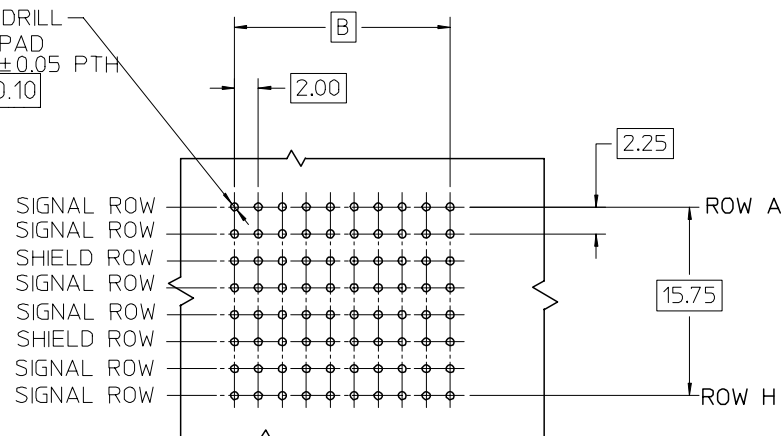
VHDM-HSD is a trademark of Amphenol Corporation

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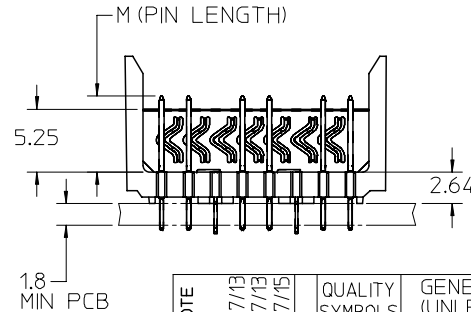
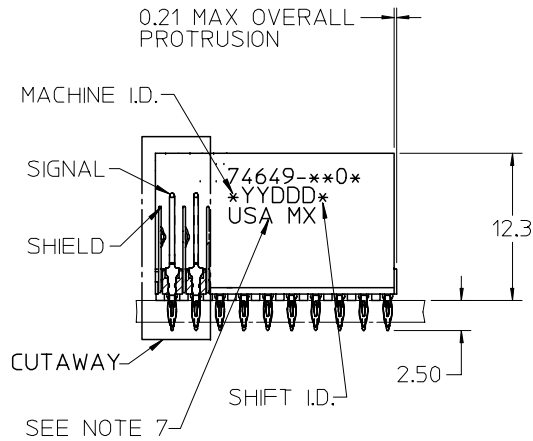
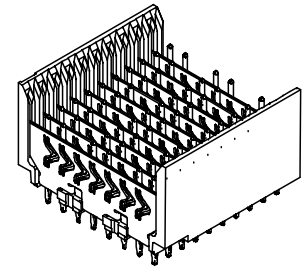
$\varnothing 0.66$ DRILL
 $\varnothing 1.00$ PAD
 $\varnothing 0.56 \pm 0.05$ PTH
 $\varnothing 0.10$



BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION

NOTES:

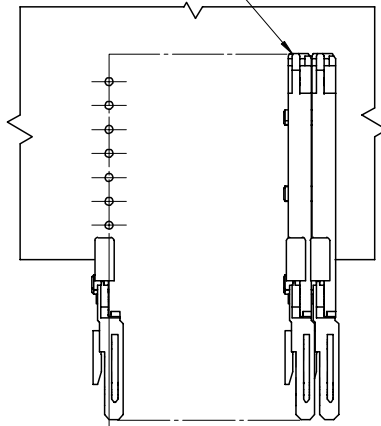
1. MATERIAL:
HOUSING -LIQUID CRYSTAL POLYMER (LCP), GLASS-FILLED, UL 94V-0, COLOR BLACK.
SIGNAL PIN & SHIELD -HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES:
CONTACT AREA: SELECTIVE GOLD (Au)
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn)
NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT MATING LENGTHS CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBERS AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74060-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.



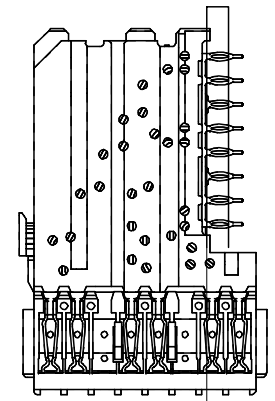
REVISED - PLATING NOTE EC NO: UCP2006-0051 DRWN: KMULVEY 2005/07/13 CHKD: 2005/07/13 APPR: SPEED 2005/07/15	DESCRIPTION	QUALITY SYMBOLS ▽ 0 ▽ 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ±1/2°</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ±1/2°			SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
					mm	INCH																			
				4 PLACES	± ---	± ---																			
				3 PLACES	± ---	± ---																			
				2 PLACES	± ---	± ---																			
1 PLACE	± ---	± ---																							
ANGULAR ±1/2°																									
DIMENSION STYLE MM ONLY		TITLE HSD SALES ASSEMBLY 8 ROW OPEN END BACKPLANE																							
DRAWN BY DATE MQWANG 2001/01/22																									
CHECKED BY DATE JLAURX 2001/01/23																									
APPROVED BY DATE CBIXLER 2001/01/24																									
□	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. DOCUMENT NO. SHEET NO. SEE SHEET 2SD-74649-0021 OF 2		B																			
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					

F
E
D
C
B
A

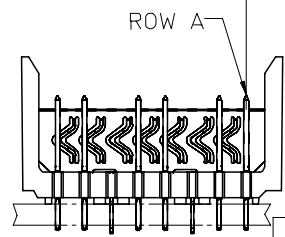
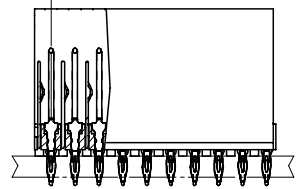
DAUGHTERCARD
CONNECTOR SIDE



0.41
SIGNAL TO
SIGNAL



2.45
TOP DAUGHTERCARD PCB
TO CENTER LINE OF ROW A



ROW A

MATERIAL NUMBER ASSIGNMENT

74649-XXYY

SEE TABLE

- 10 = 10 COLUMN TIN/LEAD
- 25 = 25 COLUMN TIN/LEAD
- 90 = 10 COLUMN MATTE TIN
- 85 = 25 COLUMN MATTE TIN

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	Sn (um) THICKNESS
74649-*001	10	60	10	20.00	18.00	4.75	0.76	0.76-1.52
74649-*006							1.27	
74649-*501	25	150	25	50.00	48.00	6.25	0.76	
74649-*506							1.27	
74649-*002	10	60	10	20.00	18.00	4.25	0.76	
74649-*007							1.27	
74649-*502	25	150	25	50.00	48.00	5.15	0.76	
74649-*507							1.27	
74649-*003	10	60	10	20.00	18.00	4.75	0.76	
74649-*008							1.27	
74649-*503	25	150	25	50.00	48.00	6.25	0.76	
74649-*508							1.27	
74649-*004	10	60	10	20.00	18.00	5.15	0.76	
74649-*009							1.27	
74649-*504	25	150	25	50.00	48.00	4.25	0.76	
74649-*509							1.27	

A

SEE SHEET 1
EC NO: UCP2006-0051
DRAWN: K MULVEY 2005/07/13
CHKD: 2005/07/13
APPR: S REED 2005/07/15

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
MOWANG 2001/01/22
CHECKED BY DATE
JLAURX 2001/01/23
APPROVED BY DATE
CBIXLER 2001/01/24

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
TITLE
HSD SALES ASSEMBLY
8 ROW OPEN END
BACKPLANE
MOLEX INCORPORATED
MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-74649-002
SHEET NO. 2 OF 2

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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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