

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0746952506

Status:

Active

Overview:

vhdm__hsd

Description:

2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Open Module, 100 Circuits, Pin Length 4.75mm (.187")

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

General

Product Family

Backplane Connectors

Series

74695

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)

100

Circuits (maximum)

100

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

High Performance Alloy (HPA)

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

5

Orientation

Vertical

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

Plating min: Mating (µin)

50

Plating min: Mating (µm)

1.25

Plating min: Termination (µin)

30

Plating min: Termination (µm)

0.75

Polarized to PCB

Yes

Surface Mount Compatible (SMC)

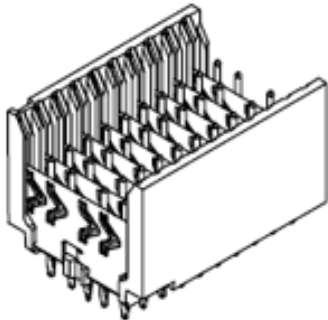
Yes

Temperature Range - Operating

-55°C to +105°C

Termination Interface: Style

Through Hole - Compliant Pin



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



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

74695Series

Mates With

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

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 Inserter Repair Tool	0622015700
VHDM® 5 Row and Shield Repair Tool	0622015810
VHDM® 5 Row Shield Extraction Tool	0622016010
VHDM-HSD™ Signal Header, 5 Row by	0622020202

Electrical

Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Shield Type	Ground Plane Shield
Shielded	Yes
Voltage - Maximum	120V AC (RMS)/DC

25 Wide, 50.00mm
(1.97")

Material Info

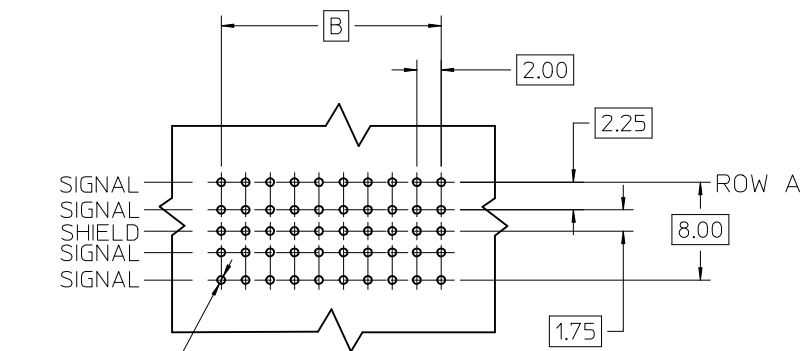
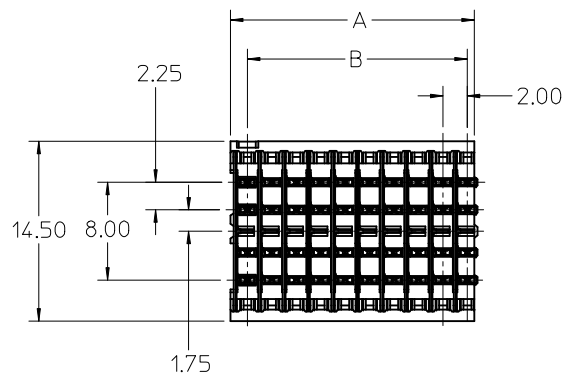
Reference - Drawing Numbers

Packaging Specification	PK-74695-003
Sales Drawing	SD-74695-002

VHDM-HSD is a trademark of Amphenol Corporation

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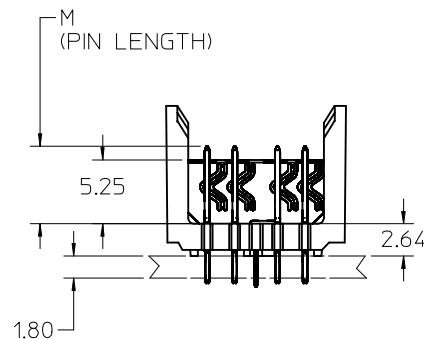
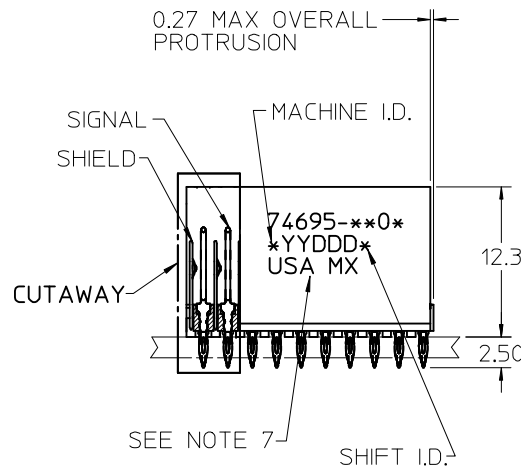
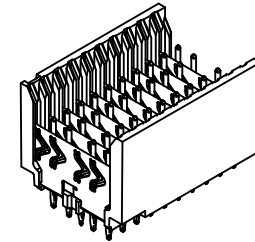
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$\phi 0.66$ DRILL
 $\phi 0.56 \pm 0.05$ PTH
 $\phi 1.00$ PAD

$\phi 0.10$

BACKPLANE HOLE PATTERN RECOMMENDED DIMENSION



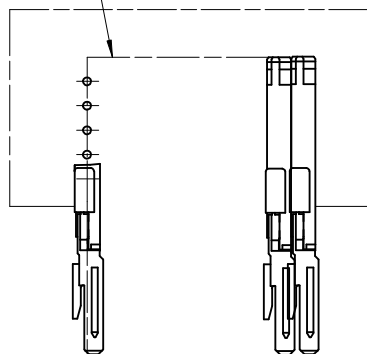
NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP). GLASS-FILLED. UL 94 V-0. COLOR BLACK. SIGNAL & SHIELD -COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) ON PCB TAILS. 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-74695-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.

REVISED: ADD LEAD-FREE EC NO: UCP2006-4727 DRWN:CTHOMAS 2006/02/16 CHKD:JINGHAM 2006/02/16 APPR:KMULVEY 2006/02/16	DESCRIPTION	QUALITY SYMBOLS -0 -0	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 5 ROW OPEN END BACKPLANE			
			4 PLACES	± --- ± ---	DRAWN BY DATE					
			3 PLACES	± --- ± ---	MQWANG 2001/04/11					
			2 PLACES	± --- ± ---	CHECKED BY DATE					
1 PLACE	± --- ± ---	NMARTIN 2001/04/14		MOLEX MOLEX INCORPORATED						
ANGULAR ±1/2°		APPROVED BY DATE								
DRAFT WHERE APPLICABLE		CBIXLER 2001/04/14		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				SEE SHT.2&3		SD-74695-002		1 OF 3		
D REV			MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
					B					

10 9 8 7 6 5 4 3 2 74695

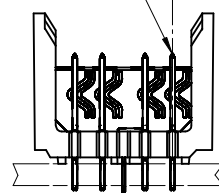
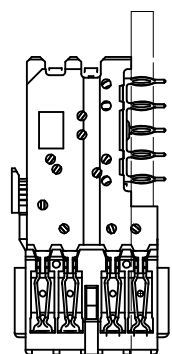
DAUGHTERCARD
CONNECTOR SIDE



0.41
SIGNAL TO
SIGNAL

0.75
TOP
DAUGHTERCARD
PCB TO CENTER
OF ROW A

ROW A



MATERIAL NUMBER ASSIGNMENT

74695-**-** SEE TABLES (SHEET 3)

NUMBER OF COLUMNS/PLATING

10 = 10 COLUMN TIN/LEAD

12 = 12 COLUMN TIN/LEAD

15 = 15 COLUMN TIN/LEAD

25 = 25 COLUMN TIN/LEAD

90 = 10 COLUMN MATTE TIN

92 = 12 COLUMN MATTE TIN

95 = 15 COLUMN MATTE TIN

85 = 25 COLUMN MATTE TIN

REVISED: ADD LEAD-FREE EC NO: UCP2006-4727 DRWN:CTHOMAS 2006/02/16 CHKD:JBINGHAM 2006/02/16 APPR:KMULVEY 2006/02/16	DESCRIPTION	QUALITY SYMBOLS ▽-0 ▽-0	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 5 ROW OPEN END BACKPLANE	
			4 PLACES	± ---	± ---	DRAWN BY DATE					
			3 PLACES	± ---	± ---	MQWANG 2001/04/11					
			2 PLACES	± ---	± ---	CHECKED BY DATE					
1 PLACE	± ---	± ---	NMARTIN 2001/04/14		 MOLEX INCORPORATED						
ANGULAR ±1/2°		APPROVED BY DATE	MATERIAL NO.	DOCUMENT NO.		SHEET NO.					
DRAFT WHERE APPLICABLE		CBIXLER 2001/04/14	SEE TABLES SD-74695-002			2 OF 3					
D	REV		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					B	

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) THICKNESS	Sn/Pb (um)
74695-1001	10	40	10	20.00	18.00	4.75	0.76	0.76-1.52
74695-1006							1.27	
74695-1201	12	48	12	24.00	22.00		0.76	
74695-1206							1.27	
74695-2501	25	100	25	50.00	48.00		0.76	
74695-2506							1.27	
74695-1002	10	40	10	20.00	18.00	0.76		
74695-1007						1.27		
74695-1202	12	48	12	24.00	22.00	0.76		
74695-1207						1.27		
74695-2502	25	100	25	50.00	48.00	0.76		
74695-2507						1.27		
74695-1003	10	40	10	20.00	18.00	0.76		
74695-1008						1.27		
74695-1203	12	48	12	24.00	22.00	0.76		
74695-1208						1.27		
74695-2503	25	100	25	50.00	48.00	0.76		
74695-2508						1.27		
74695-1004	10	40	10	20.00	18.00	0.76		
74695-1009						1.27		
74695-1204	12	48	12	24.00	22.00	0.76		
74695-1209						1.27		
74695-2504	25	100	25	50.00	48.00	0.76		
74695-2509						1.27		

TIN/LEAD CHART

PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS	Sn (um)
74695-9001	10	40	10	20.00	18.00	4.75	0.76	0.76-152
74695-9006							1.27	
74695-9501	12	48	12	24.00	22.00		0.76	
74695-9506							1.27	
74695-8501	25	100	25	50.00	48.00		0.76	
74695-8506							1.27	
74695-9002	10	40	10	20.00	18.00	0.76		
74695-9007						1.27		
74695-9502	12	48	12	24.00	22.00	0.76		
74695-9507						1.27		
74695-8502	25	100	25	50.00	48.00	0.76		
74695-8507						1.27		
74695-9003	10	40	10	20.00	18.00	0.76		
74695-9008						1.27		
74695-9503	12	48	12	24.00	22.00	0.76		
74695-9508						1.27		
74695-8503	25	100	25	50.00	48.00	0.76		
74695-8508						1.27		
74695-9004	10	40	10	20.00	18.00	0.76		
74695-9009						1.27		
74695-9504	12	48	12	24.00	22.00	0.76		
74695-9509						1.27		
74695-8504	25	100	25	50.00	48.00	0.76		
74695-8509						1.27		

LEAD FREE CHART

ADDED SHEET: 3

EC NO: UCP2006-1727

DRWN:CTHOMAS

CHKD:JBINGHAM

APPR:KMULVEY

2006/02/16

2006/02/16

2006/02/16

DESCRIPTION

REV

QUALITY SYMBOLS

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES ± --- ± ---

3 PLACES ± --- ± ---

2 PLACES ± --- ± ---

1 PLACE ± --- ± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

DOCUMENT NO.

SD-74695-002

SEE TABLES

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

SCALE

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

HSD SALES ASSEMBLY

5 ROW OPEN END BACKPLANE

MOLEX INCORPORATED

SHEET NO.

3 OF 3



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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