

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0746959001](#)
Status: **Active**
Overview: [vhdm__hsd](#)
Description: 2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Open Module, 40 Circuits, Pin Length 4.75mm (.187"), Lead Free

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) 40
Circuits (maximum) 40
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
Material - Resin High Temperature Thermoplastic
Number of Columns 10
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) 30
Plating min: Mating (µm) 0.75
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

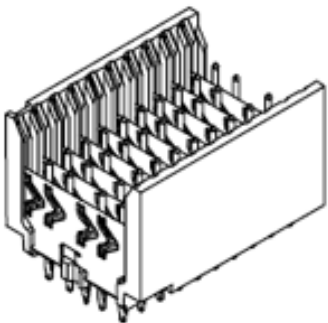


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
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
[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® 5 Row Pin and Shield Repair Tool	0622015810
VHDM® 5 Row Shield Extraction Tool	0622016010
VHDM-HSD™ Signal Header, 5 Row by 10 Wide, 20.00mm (.787")	0622020201

Electrical

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

Material Info

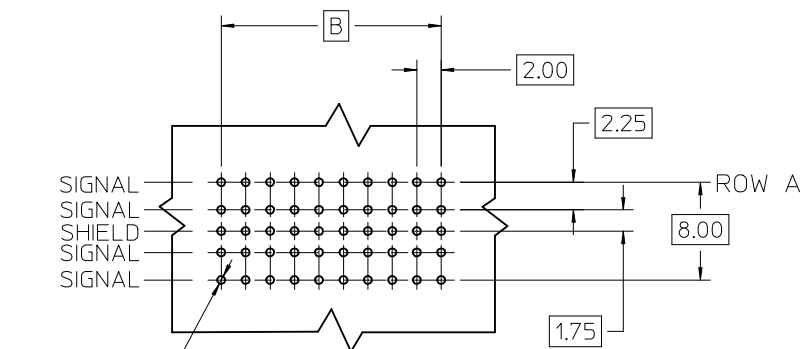
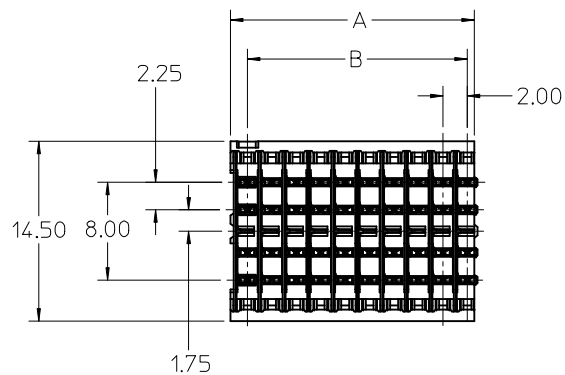
Reference - Drawing Numbers

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

VHDM-HSD is a trademark of Amphenol Corporation

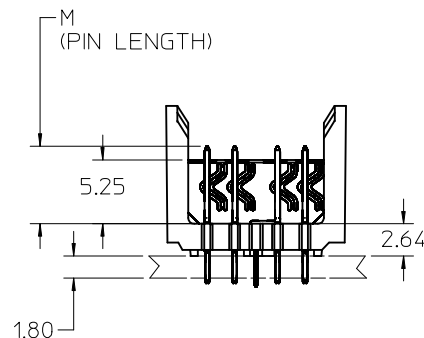
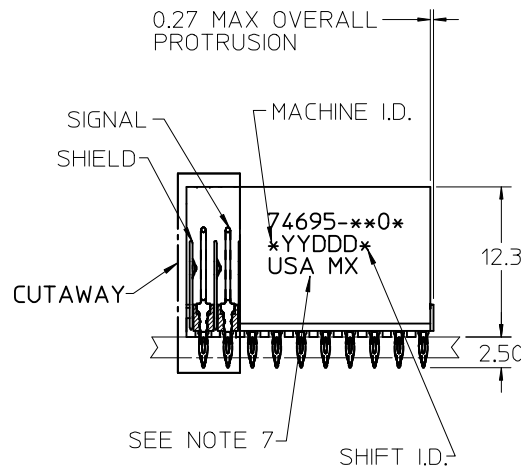
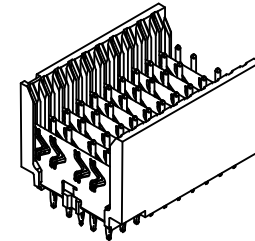
This document was generated on 05/27/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



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

BACKPLANE HOLE PATTERN RECOMMENDED DIMENSION



NOTES:

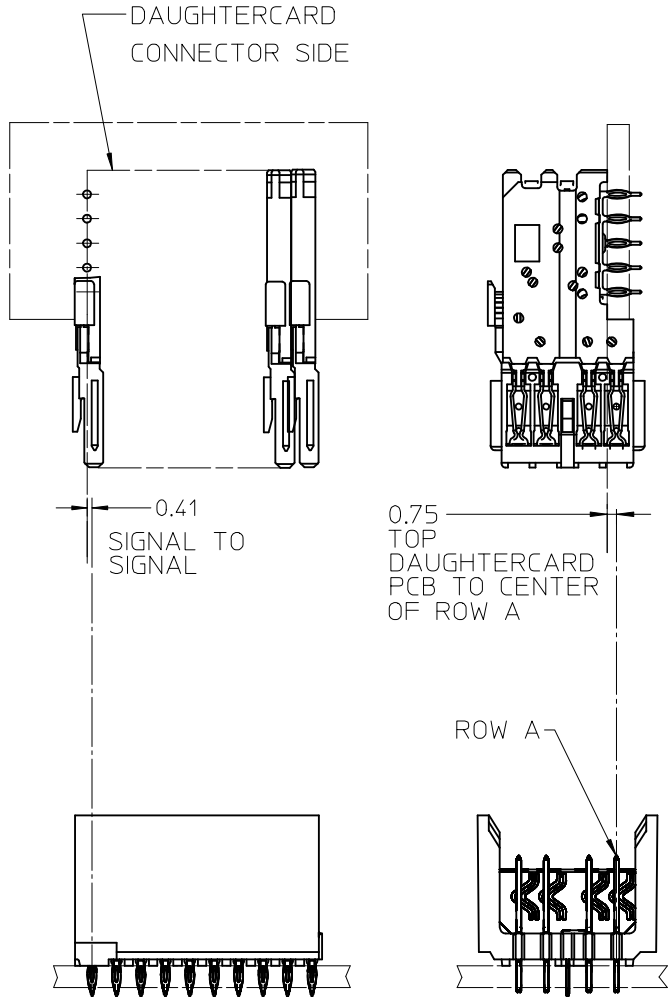
1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP). GLASS-FILLED. UL 94 V-0. COLOR BLACK. SIGNAL & SHIELD -COPPER ALLOY.
2. FINISHES: SELECTIVE GOLD (Au) ON CONTACT AREA. SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) ON PCB TAILS. NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION 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 D	DESCRIPTION REV	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 ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± ---		DRAWN BY MQWANG				DATE 2001/04/11		
			ANGULAR ±1/2°		CHECKED BY NMARTIN		DATE 2001/04/14				
			DRAFT WHERE APPLICABLE		APPROVED BY CBIXLER		DATE 2001/04/14		MATERIAL NO. SEE SHT.2&3		DOCUMENT NO. SD-74695-002
MUST REMAIN WITHIN DIMENSIONS								SHEET NO. 1 OF 3			
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		B	

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: UCP2006-1727 DRWN:CTHOMAS 2006/02/16 CHKD:JBINGHAM 2006/02/16 APPR:KMULVEY 2006/02/16 D		DESCRIPTION	QUALITY SYMBOLS ▽-0 ▽C-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 ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY MQWANG	DATE 2001/04/11				
				2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	CHECKED BY NMARTIN	DATE 2001/04/14	MOLEX MOLEX INCORPORATED			
				ANGULAR ±1/2°		APPROVED BY CBIXLER	DATE 2001/04/14	MATERIAL NO. SEE TABLES	DOCUMENT NO. SD-74695-002	SHEET NO. 2 OF 3	
				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					
REV						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	6.25	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	4.25	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	5.15	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 2006/02/16 CHKD:JBINGHAM 2006/02/16 APPR:KMULVEY 2006/02/16	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm INCH		DRAWN BY DATE		TITLE			
		4 PLACES ± --- ± ---		MOWANG 2001/04/11		HSD SALES ASSEMBLY			
		3 PLACES ± --- ± ---		CHECKED BY DATE		5 ROW OPEN END			
2 PLACES ± --- ± ---		NMARTIN 2001/04/14		BACKPLANE					
1 PLACE ± --- ± ---		APPROVED BY DATE		MOLEX MOLEX INCORPORATED					
ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLES		SD-74695-002		3 OF 3			
SIZE C		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.