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Part Number: [0749812511](#)
Status: **Active**
Overview: vhdm_hsd
Description: 2.00mm (.079") Pitch 6-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Shield End Version, 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 [74981](#)
 Application Backplane
 Application Tooling Documents http://www.molex.com/pdm_docs/ats/TM-622010999.pdf>Tooling Manual
 Comments Keying Position A
 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 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 6
 Orientation Vertical
 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
 Plating min: Termination (µm) 0.75
 Polarized to PCB Yes

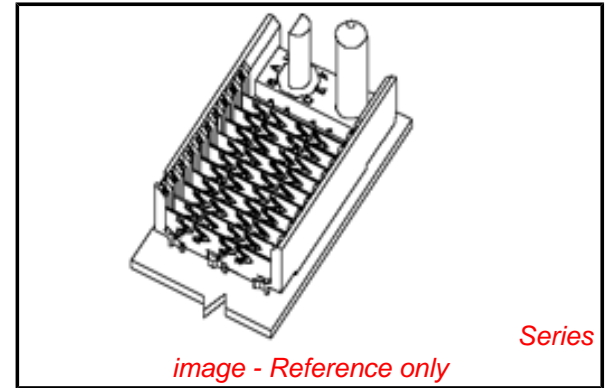


image - Reference only

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

[74981Series](#)

Mates With

[74880 VHDMHSD Daughtercard](#)

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 Inserter Repair Tool	0622015700
VHDM-HSD™ Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")	0622020217

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)	48
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

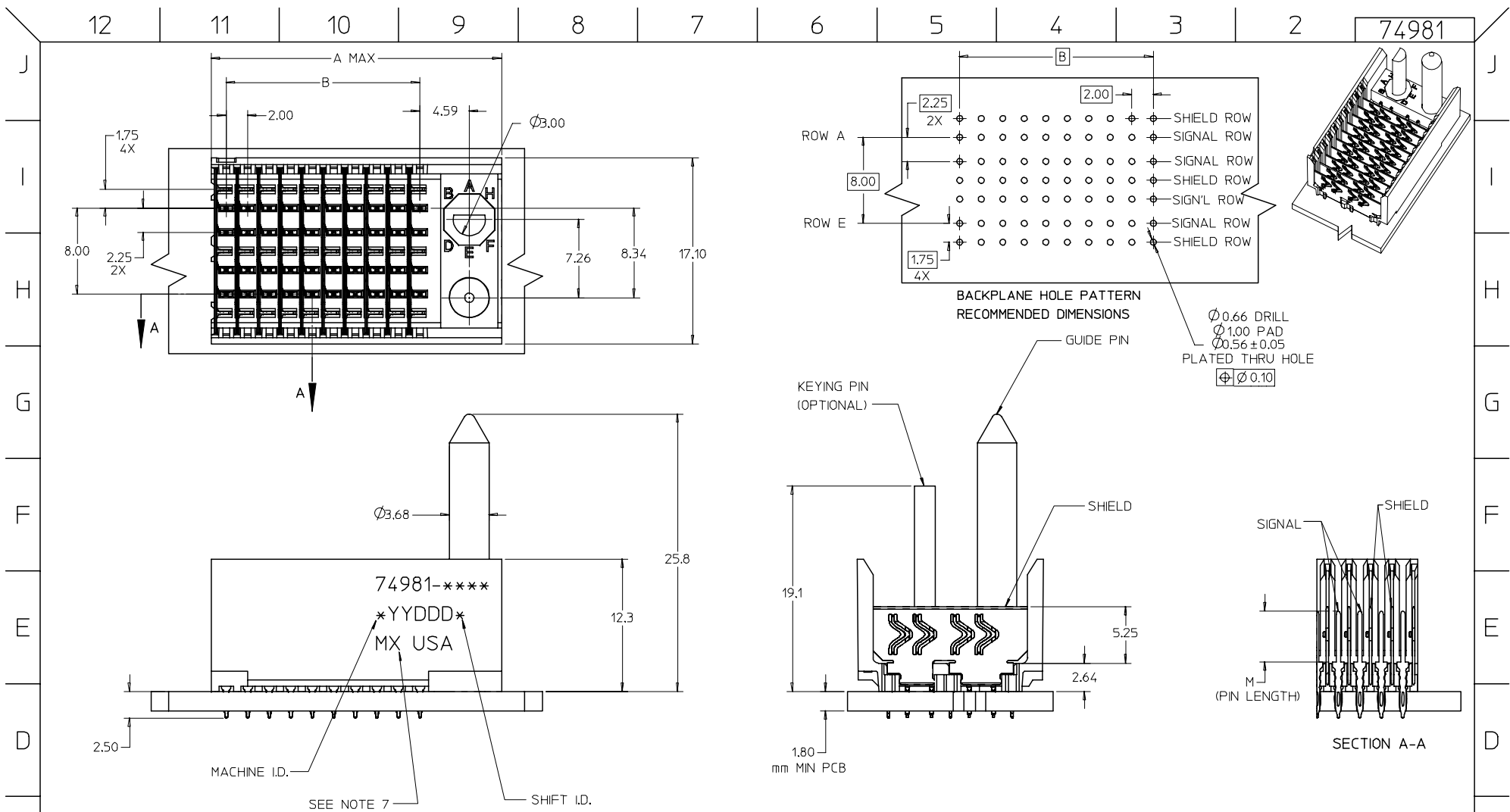
Reference - Drawing Numbers

Sales Drawing	SD-74981-010
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VHDM-HSD is a trademark of Amphenol Corporation

This document was generated on 05/28/2010

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NOTES:

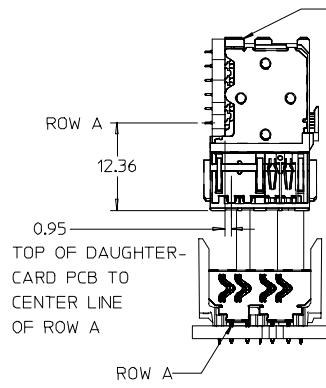
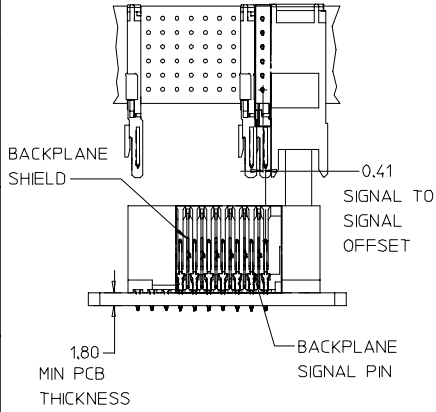
1. MATERIAL: HOUSING-LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED. UL 94V-0. COLOR-BLACK. SIGNAL AND SHIELD - HIGH PERFORMANCE COPPER ALLOY.
2. FINISHES:
 CONTACT AREA: SELECTIVE GOLD (Au)
 PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb) OR SELECTIVE MATTE TIN (Sn) NICKEL (Ni) OVERALL.
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999.
4. FOR MIXED CONTACT LENGTHS - CONSULT MOLEX FOR AVAILABILITY.
5. FOR SPECIFIC PART NUMBER AND MATING INFORMATION REFER TO SHEET 2.
6. PACKAGE PER PK-74058-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON TUBE.

ADD LEADFREE PNs EC NO: UCP2006-0067 DRAWN: KMULVEY 2005/07/15 CHKD: 2005/07/18 APPR: SREED 2005/08/11	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
		$\nabla = 0$ $\sphericalangle = 0$	m	INCH	DIMENSION STYLE MM ONLY		TITLE			
			4 PLACES	± ---	± ---	DRAWN BY DATE		HSD SALES ASSEMBLY 6 ROW SHIELD END BACKPLANE		
			3 PLACES	± ---	± ---	NMARTIN 2002/09/06				
2 PLACES	± ---	± ---	CHECKED BY DATE		MOLEX INCORPORATED					
1 PLACE	± ---	± ---	SREED 2002/09/06							
		ANGULAR ± 1°	DRAFT WHERE APPLICABLE		APPROVED BY DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
		MUST REMAIN WITHIN DIMENSIONS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CBIXLER 2002/09/06	SEE SHEET 2	SD-74981-010	1 OF 2		

12 11 10 9 8 7 6 5 4 3 2 74981

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DAUGHTERCARD CONNECTOR SIDE

74981-****

NUMBER OF COLUMNS/PLATING
 10 = 10 COLUMN TIN/LEAD
 25 = 25 COLUMN TIN/LEAD
 90 = 10 COLUMN MATTE TIN
 85 = 25 COLUMN MATTE TIN

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

P/N 74981-()	---0* O	---1* A	---2* B	---3* C	---4* D	---5* E	---6* F	---7* G	---8* H
KEYING PIN ORIENTATION									

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A MAX	B	M	Au (µm) MIN THICKNESS	Sn/Pb (µm) THICKNESS
74981-*0*1	10	40	10	27.00	18.00	4.75	0.76	0.38-152
74981-*0*6							1.27	
74981-*5*1	25	100	25	57.00	48.00	4.75	0.76	
74981-*5*6							1.27	
74981-*0*2	10	40	10	27.00	18.00	6.25	0.76	
74981-*0*7							1.27	
74981-*5*2	25	100	25	57.00	48.00	6.25	0.76	
74981-*5*7							1.27	
74981-*0*3	10	40	10	27.00	18.00	4.25	0.76	
74981-*0*8							1.27	
74981-*5*3	25	100	25	57.00	48.00	4.25	0.76	
74981-*5*8							1.27	
74981-*0*4	10	40	10	27.00	18.00	5.15	0.76	
74981-*0*9							1.27	
74981-*5*4	25	100	25	57.00	48.00	5.15	0.76	
74981-*5*9							1.27	

SEE SHT 1 EC NO: UCP2006-0067 DRAWN: KMULVEY 2005/07/15 CHKD: 2005/07/18 APPR: SREED 2005/08/11	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY															
	▽=0 ◁=0	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </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> </table> ANGULAR ± 1°		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	DIMENSION STYLE MM ONLY	TITLE	HSD SALES ASSEMBLY 6 ROW SHIELD END BACKPLANE	
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3 PLACES	± ---	± ---																			
2 PLACES	± ---	± ---																			
1 PLACE	± ---	± ---																			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY CBIXLER 2002/09/06	CHECKED BY SREED 2002/09/06	DRAWN BY NMARTIN 2002/09/06	DATE	MOLEX INCORPORATED																
					MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-74981-010 SHEET NO. 2 OF 2															

11 10 9 8 7 6 5 4 3 2 1