

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0746961006

Status:

Active

Overview:

vhdm__hsd

Description:

2.00mm (.079") Pitch 5-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Pin End Version, 40 Circuits, Pin Length 4.75mm (.187")

Documents:

Drawing (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

General

Product Family

Backplane Connectors

Series

74696

Application

Backplane

Application Tooling Documents

Tooling Manual

Comments

No Keying Position

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

Yes

Keying to Mating Part

None

Material - Metal

High Performance Alloy (HPA), Stainless Steel

Material - Plating Mating

Gold

Material - Plating Termination

Gold

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

Stackable

Yes

Surface Mount Compatible (SMC)

Yes

Temperature Range - Operating

-55°C to +105°C

Termination Interface: Style

Through Hole - Compliant Pin

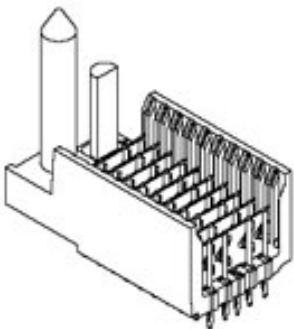


image - Reference only

Series

EU RoHS

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

74696Series

Mates With

74670 HSD Daughtercard

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	0622020201

Electrical

Current - Maximum per Contact	1A
Data Rate	5.0 Gbps
Real Signals (per 25mm)	48
Voltage - Maximum	120V AC (RMS)/DC

10 Wide, 20.00mm
(.787")

Material Info

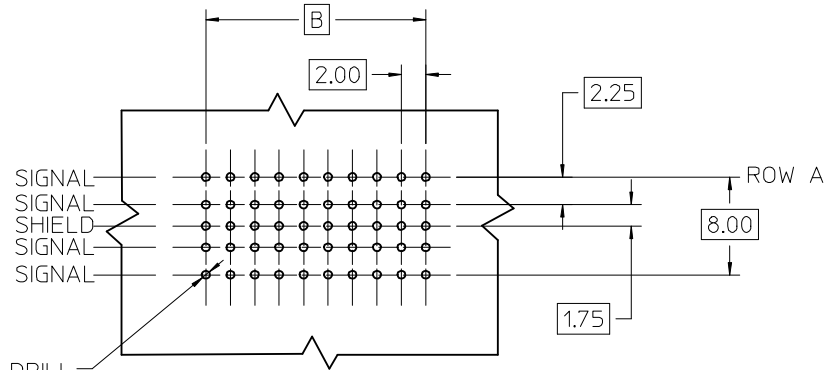
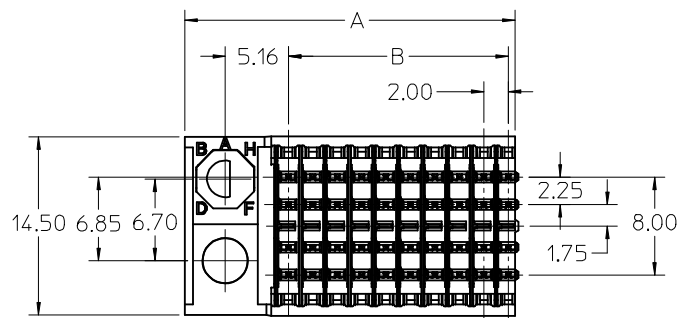
Reference - Drawing Numbers

Packaging Specification	PK-74696-003
Sales Drawing	SD-74696-002

VHDM-HSD is a trademark of Amphenol Corporation

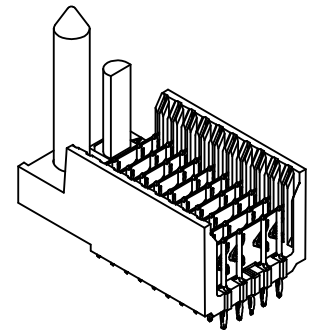
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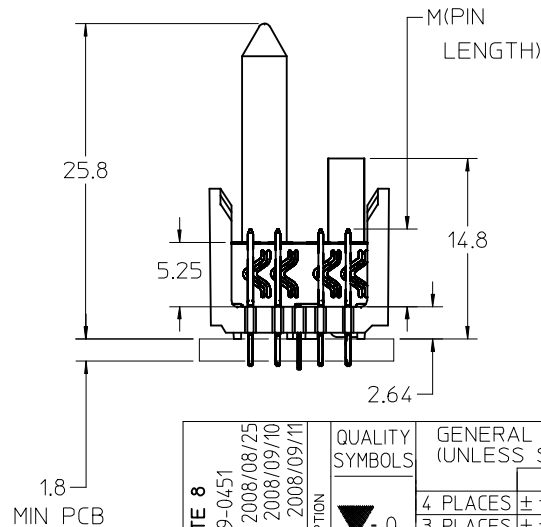
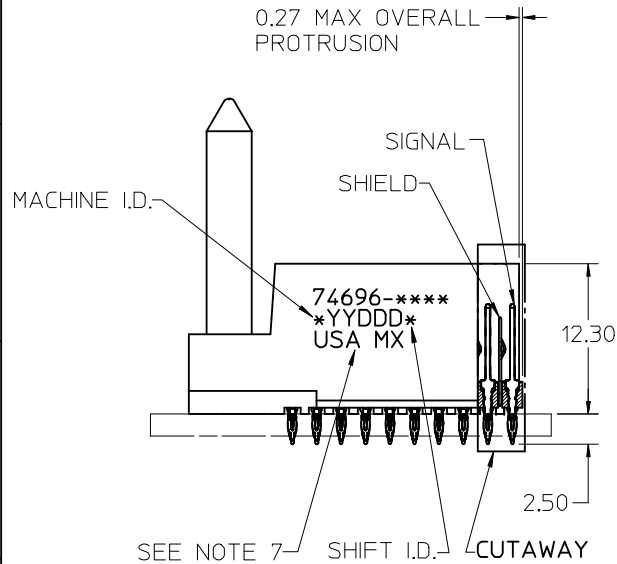


$\varnothing 0.66$ DRILL
 $\varnothing 0.56 \pm 0.05$ PTH
 $\varnothing 1.00$ PAD
 $\varnothing \varnothing 0.10$

BACKPLANE HOLE PATTERN RECOMMENDED DIMENSIONS



0.27 MAX OVERALL
PROTRUSION



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 MATTE TIN 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-74696-003.
7. EITHER MARK PART NUMBER AND DATE CODE APPROXIMATELY
WHERE SHOWN OR PLACE LABEL ON THE TUBE.
8. PRODUCT COMPLIES WITH COSMETIC SPECIFICATION PS-45499-002.

ADD NOTE 8 EC NO: UCP2009-0451 DRWN:BSMART 2008/08/25 CHKD:BBARKER 2008/09/10 APPR:SMILLER 2008/09/11	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 5 ROW SIGNAL END BACKPLANE																		
			DRAWN BY MQWANG	DATE 2001/04/17																			
			CHECKED BY NMARTIN	DATE 2001/04/20	MOLEX MOLEX INCORPORATED																		
APPROVED BY CBIXLER		DATE 2001/04/20	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-74696-002	SHEET NO. 1 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																					
		B																					

10 9 8 7 6 5 4 3 2 74696

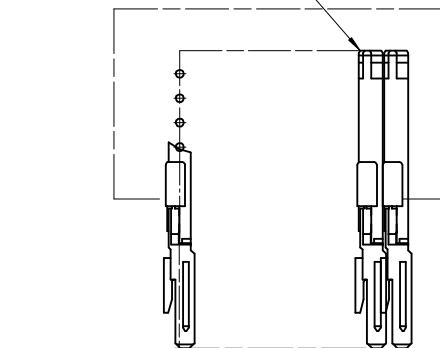
P/N 74696-()	-**0*	-**1*	-**2*	-**3*	-**4*	-**5*	-**6*	-**7*	-**8*
	0	A	B	C	D	E	F	G	H
KEYING PIN ORIENTATION									

74696-***

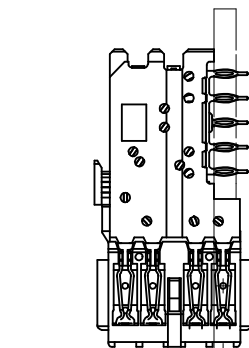
NUMBER OF
COLUMN
5, 10 OR 25
LEADED OR LEAD FREE

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

DAUGHTERCARD
CONNECTOR SIDE



0.41
SIGNAL TO
SIGNAL



0.75
TOP
DAUGHTERCARD
PCB TO CENTER
OF ROW A

ROW A

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	SnPb(um) THICKNESS	
74696-10*1	10	40	10	27.00	18.00	4.75	0.76	0.76-1.52	
74696-10*6							1.27		
74696-25*1	25	100	25	57.00	48.00		0.76		
74696-25*6							1.27		
74696-05*7	5	20	5	17.00	8.00	6.25	1.27		
74696-10*2	10	40	10	27.00	18.00		0.76		
74696-10*7							1.27		
74696-25*2	25	100	25	57.00	48.00		0.76		
74696-25*7							1.27		
74696-10*3	10	40	10	27.00	18.00	4.25	0.76		
74696-10*8							1.27		
74696-25*3	25	100	25	57.00	48.00		0.76		
74696-25*8							1.27		
74696-10*4	10	40	10	27.00	18.00	5.15	0.76		
74696-10*9							1.27		
74696-25*4	25	100	25	57.00	48.00		0.76		
74696-25*9							1.27		

SEE SHEET 1 EC NO: UCP2009-0451 IDRW:BSMART 2008/08/25 CHKD:BBARKER 2008/09/10 APPR:SWILLER 2008/09/11	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	THIRD ANGLE PROJECTION REVISE ON CAD ONLY	HSD SALES ASSEMBLY 5 ROW SIGNAL END BACKPLANE MOLEX INCORPORATED	MATERIAL NO. DOCUMENT NO. SHEET NO.
G	REV	DESCRIPTION	DRAWN BY MQWANG CHECKED BY NMARTIN APPROVED BY CBIXLER	DATE 2001/04/17 2001/04/20 2001/04/20	SEE TABLE SD-74696-002	2 OF 3

10 9 8 7 6 5 4 3 2 1

PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	Sn (um) THICKNESS
74696-90*1	10	40	10	27.00	18.00	4.75	0.76	0.76-1.52
74696-90*6							1.27	
74696-85*1	25	100	25	57.00	48.00		0.76	
74696-85*6							1.27	
74696-95*7	5	20	5	17.00	8.00	6.25	1.27	
74696-90*2	10	40	10	27.00	18.00		0.76	
74696-90*7							1.27	
74696-85*2	25	100	25	57.00	48.00		0.76	
74696-85*7							1.27	
74696-90*3	10	40	10	27.00	18.00	4.25	0.76	
74696-90*8							1.27	
74696-85*3	25	100	25	57.00	48.00		0.76	
74696-85*8							1.27	
74696-90*4	10	40	10	27.00	18.00	5.15	0.76	
74696-90*9							1.27	
74696-85*4	25	100	25	57.00	48.00		0.76	
74696-85*9							1.27	

LEAD FREE P/N CHART

SEE SHEET 1 EC NO: UCP2009-0451 GIDRWINSBART 2008/08/25 CHKD:BBARKER 2008/09/10 APPR:SMILLER 2008/09/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY MQWANG	DATE 2001/04/17	TITLE HSD SALES ASSEMBLY 5 ROW SIGNAL END BACKPLANE			
		4 PLACES	± ---	± ---	CHECKED BY	DATE				
		3 PLACES	± ---	± ---	NMARTIN	2001/04/20	MOLEX INCORPORATED			
		2 PLACES	± ---	± ---	APPROVED BY	DATE				
1 PLACE	± ---	± ---	CBIXLER	2001/04/20	DOCUMENT NO. SD-74696-002					
ANGULAR ±1/2°		MATERIAL NO.		SHEET NO. 3 OF 3						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

9 8 7 6 5 4 3 2 1