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Part Number:

0746512512

Status:

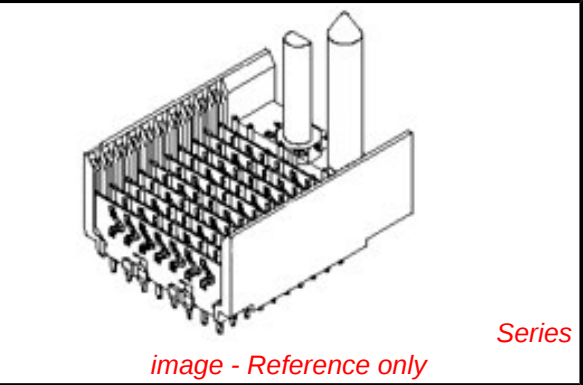
Active

Overview:

vhdm__hsd

Description:

2.00mm (.079") Pitch 8-Row VHDM-HSD™ Backplane Header, Guide Pin Signal Module, Shield End Version, 150 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	74651
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Keying Position A
Component Type	PCB Header
Overview	vhdm__hsd
Product Name	VHDM-HSD™
Style	N/A
Physical	
Circuits (Loaded)	150
Circuits (maximum)	150
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	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

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

74651Series

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	0622015700
Insertor Repair Tool	
VHDM® Insertion	0622020206
Module for Advanced Mate Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")	

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

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	120V AC (RMS)/DC

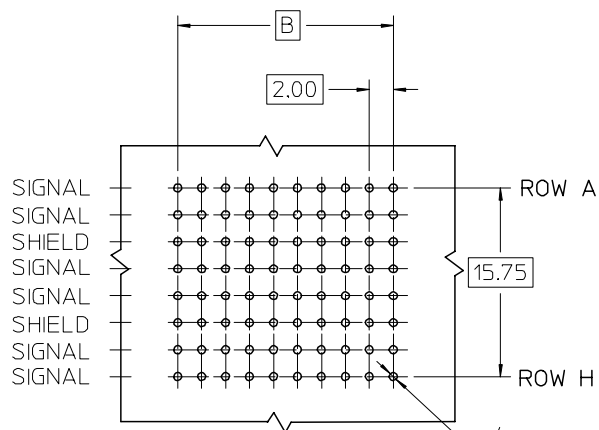
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-74061-003
Sales Drawing	SD-74651-002

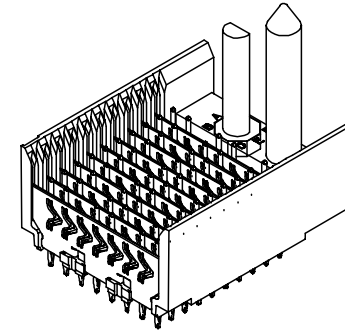
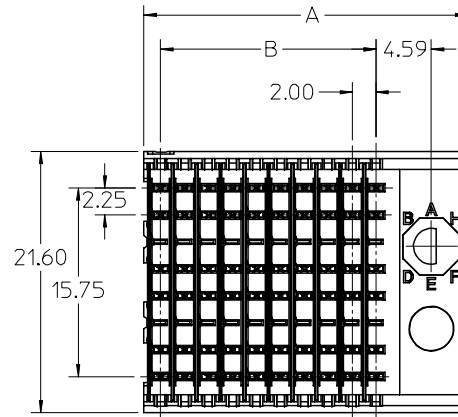
VHDM-HSD is a trademark of Amphenol Corporation

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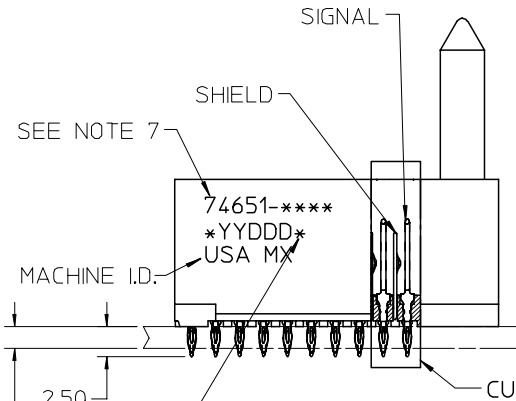
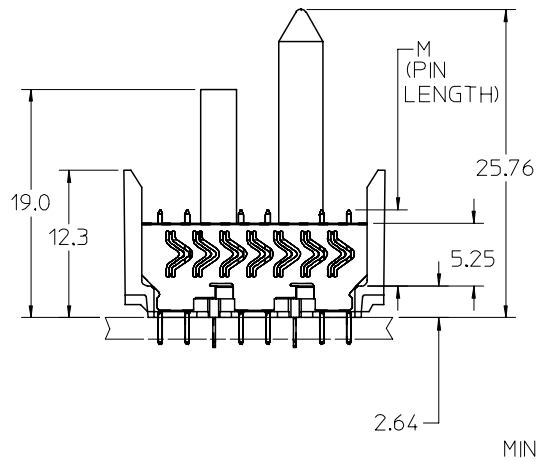
BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION

Ø0.66 DRILL
Ø0.56 ±0.05 PTH
Ø1.00 PAD
Ø0.10



NOTES:

1. MATERIAL: HOUSING -LIQUID CRYSTAL POLYMER (LCP) GLASS-FILLED.
UL 94-0. COLOR BLACK. SIGNAL & 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 NUMBER AND MATING INFORMATION REFER TO
SHEET 2.
6. PACKAGE PER PK-74061-003.
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: SREED 2005/07/15	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 2.5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY							
					DIMENSION STYLE MM ONLY			TITLE							
		 0	mm	INCH			HSD SALES ASSEMBLY 8 ROW SHIELD END BACKPLANE								
			4 PLACES	± ---	± ---										
			3 PLACES	± ---	± ---	DRAWN BY DATE									
			2 PLACES	± ---	± ---	MQWANG 2001/03/26									
		 C 0	1 PLACE	± ---	± ---	CHECKED BY DATE		MOLEX INCORPORATED							
			ANGULAR ±1/2°			JLAURX 2001/04/01									
			DRAFT WHERE APPLICABLE			APPROVED BY DATE						MATERIAL NO.		DOCUMENT NO.	SHEET NO.
			MUST REMAIN WITHIN DIMENSIONS			CBIXLER 2001/04/01						SEE SHEET 2		SD-74651-002	1 OF 2
	REV	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 74651

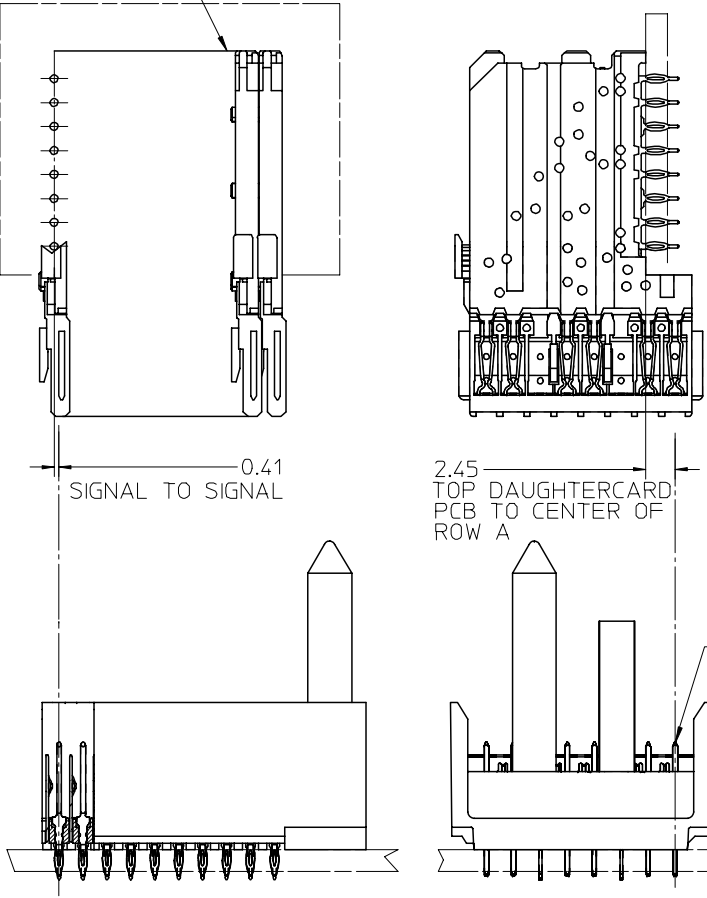
M/N 74651-()	-**0*	-**1*	-**2*	-**3*	-**4*	-**5*	-**6*	-**7*	-**8*
KEYING PIN ORIENTATION	0	A	B	C	D	E	F	G	H

74651-***

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

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

DAUGHTERCARD
CONNECTOR SIDE



PART NUMBER	COLUMN	NUMBER OF SIGNAL PINS	NUMBER OF SHIELDS	A	B	M	Au (um) MIN THICKNESS	Sn (um) THICKNESS
74651-*0*1	10	60	10	27.00	18.00	4.75	0.76	0.76-1.52
74651-*0*6							1.27	
74651-*5*1	25	150	25	57.00	48.00	4.75	0.76	
74651-*5*6							1.27	
74651-*0*2	10	60	10	27.00	18.00	6.25	0.76	
74651-*0*7							1.27	
74651-*5*2	25	150	25	57.00	48.00	6.25	0.76	
74651-*5*7							1.27	
74651-*0*3	10	60	10	27.00	18.00	4.25	0.76	
74651-*0*8							1.27	
74651-*5*3	25	150	25	57.00	48.00	4.25	0.76	
74651-*5*8							1.27	
74651-*0*4	10	60	10	27.00	18.00	5.15	0.76	
74651-*0*9							1.27	
74651-*5*4	25	150	25	57.00	48.00	5.15	0.76	
74651-*5*9							1.27	

fb_frame_B rev. B1 2000/08/01 8 7 6 5 4 3 2 1

SEE SHEET 1
EC NO: UCP2006-0051
DRWN: KMULVEY 2005/07/13
CHKD: 2005/07/13
APPR: SREED 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
MQWANG 2001/03/26
CHECKED BY DATE
JLAURX 2001/04/01
APPROVED BY DATE
CBIXLER 2001/04/01

THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
TITLE
HSD SALES ASSEMBLY
8 ROW SHIELD END
BACKPLANE
MOLEX INCORPORATED
MATERIAL NO. SEE TABLE
DOCUMENT NO. SD-74651-002
SHEET NO. 2 OF 2

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