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Part Number:

0740612521

Status:

Active

Overview:

[vhdm](#)

Description:

2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 8-Row, Guide Pin Signal Module, Pin End Version, 200 Circuits, Pin Length 4.75mm (.187")

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	Backplane Connectors
Series	74061
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Keying Position B
Component Type	PCB Header
Overview	vhdm
Product Name	VHDM®
Style	N/A

Physical

Circuits (Loaded)	200
Circuits (maximum)	200
Color - Resin	Black
Durability (mating cycles max)	200
First Mate / Last Break	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Material - Metal	Beryllium Copper, High Performance Alloy (HPA), Stainless Steel
Material - Plating Mating	Gold
Material - Plating Termination	Tin-Lead
Material - Resin	High Temperature Thermoplastic
Number of Columns	N/A
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
Plating min: Termination (µin)	30
Plating min: Termination (µm)	0.75
Polarized to PCB	Yes
Stackable	No



image - Reference only

Series

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

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

[74061Series](#)

Mates With

[74040](#) VHDM® Board-to-Board Daughtercard Receptacle

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® 8 Row and Shield Repair Tool	0622015900
VHDM® 8 Row Shield Extraction Tool	0622016100

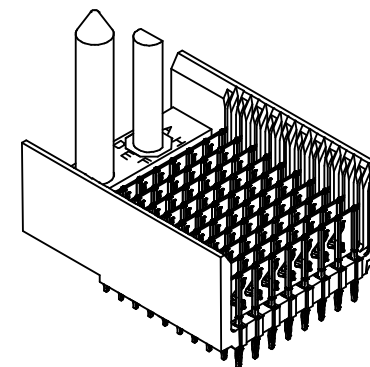
Surface Mount Compatible (SMC)	Yes	VHDM® Insertion <u>0622020206</u>
Temperature Range - Operating	105°C max	Module for Advanced
Termination Interface: Style	Through Hole - Compliant Pin	Mate Signal Header,
Electrical		6 Row by 25 Wide,
Current - Maximum per Contact	1A	50.00mm (1.97")
Data Rate	3.125 Gbps	VHDM® Insertion <u>0622020210</u>
Real Signals (per 25mm)	100	Module for Standard
Shield Type	Ground Plane Shield	Shield Signal
Shielded	Yes	Header, 8 Row by
Voltage - Maximum	120V AC (RMS)/DC	25 Wide, 50.00mm
Material Info		(1.97")
		Flat Rock Tooling for <u>0622013700</u>
		Pneumatic Press
Reference - Drawing Numbers		
Sales Drawing	SD-74061-002	
VHDM and Very High Density Metric are trademarks of Amphenol Corporation		

This document was generated on 06/01/2010

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BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSION



NOTES:

1. MATERIALS:

HOUSING - LIQUID CRYSTAL POLYMER (LCP),
GLASS-FILLED, UL 94V-0, COLOR: BLACK
SIGNAL PIN & SHIELD - COPPER ALLOY

2. FINISHES:

CONTACT AREA: SELECTIVE GOLD (Au)
PCB TAILS: SELECTIVE TIN/LEAD (Sn/Pb)
OR SELECTIVE MATTE TIN (Sn)
NICKEL (Ni) OVERALL.

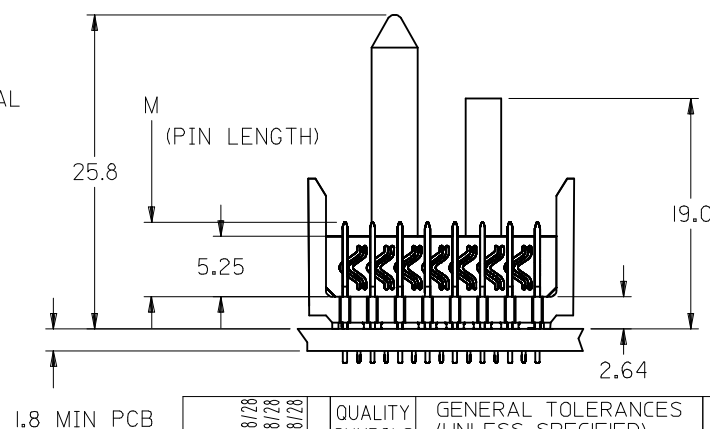
3. THIS PART CONFORMS TO MOLEX PRODUCT SPECIFICATION PS-74031-999

4. FOR MIXED CONTACT LENGTHS CONSULT MOLEX FOR AVAILABILITY

5. FOR SPECIFIC MATERIAL NUMBERS & MATING INFORMATION REFER TO SHEET 2

6. PACKAGE PER PK-74061-003

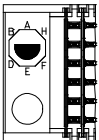
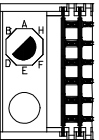
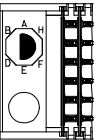
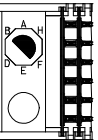
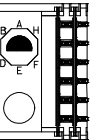
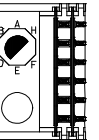
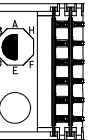
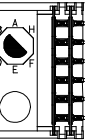
7. EITHER MARK PART WITH PART NUMBER & DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.



1.8 MIN PCB

CORRECTED DIMS EC NO: UCP2008-0329 DRWN: JONI AK 2007/08/28 CHKD: JONI AK 2007/08/28 APPR: CBIXLER 2007/08/28			QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION				
						MM ONLY		2.5:1	METRIC					
				DESCRIPTION	REV			DRAWN BY	DATE	TITLE				
								MWANG	1998/11/09					
								CHECKED BY	DATE					
								JLAURX	1998/11/09					
		APPROVED BY	DATE											
		CBIXER	1998/11/09	MOLEX MOLEX INCORPORATED										
		MATERIAL NO.							DOCUMENT NO.		SHEET NO.			
		DRAFT WHERE APPLICABLE		SEE SHEET 2		SD-74061-002		1 OF 3						
		MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

F

M/N 74061-()	-**0*	-**1*	-**2*	-**3*	-**4*	-**5*	-**6*	-**7*	-**8*
	O	A	B	C	D	E	F	G	H
KEYING PIN ORIENTATION									

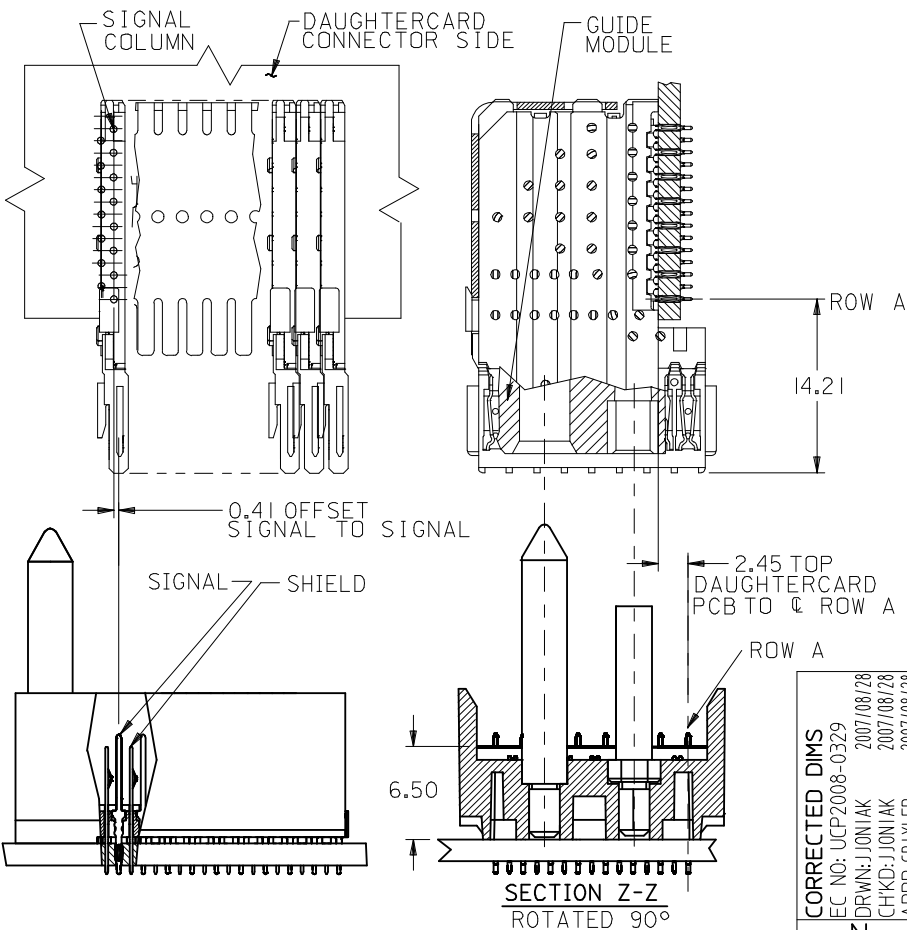
74061 - * * * *

NUMBER OF COLUMNS/PLATING
 10 = 10 COLUMN TIN/LEAD
 12 = 12 COLUMN TIN/LEAD*
 25 = 25 COLUMN TIN/LEAD
 90 = 10 COLUMN MATTE TIN
 92 = 12 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

*12 COLUMN P/N'S ON SHEET 3

E



PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS	Sn (um) THICKNESS
74061-0*1	10	80	10	27.00	18.00	4.75	0.76	0.76-1.52
74061-0*6							1.27	
74061-5*1	25	200	25	57.00	48.00	6.25	0.76	
74061-5*6							1.27	
74061-0*2	10	80	10	27.00	18.00	4.25	0.76	
74061-0*7							1.27	
74061-5*2	25	200	25	57.00	48.00	5.15	0.76	
74061-5*7							1.27	
74061-0*3	10	80	10	27.00	18.00	4.25	0.76	
74061-0*8							1.27	
74061-5*3	25	200	25	57.00	48.00	4.75	0.76	
74061-5*8							1.27	
74061-0*4	10	80	10	27.00	18.00	5.15	0.76	
74061-0*9							1.27	
74061-5*4	25	200	25	57.00	48.00	4.75	0.76	
74061-5*9							1.27	

B

A

CORRECTED DIMS
 EC NO: UCP2008-0329
 DRWN: JIONIAK 2007/08/28
 CHKD: JIONIAK 2007/08/28
 APPR: CBIXLER 2007/08/28

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

DIMENSION STYLE
 MM ONLY
 DRAWN BY DATE
 MWANG 1998/11/09
 CHECKED BY DATE
 JLAURX 1998/11/09
 APPROVED BY DATE
 CBIXLER 1998/11/09
 MATERIAL NO.
 SEE CHART

SCALE
 2.5:1
 TITLE
 SD-74061-002

DESIGN UNITS
 METRIC
 THIRD ANGLE PROJECTION
 VHDM 8 ROW
 SIGNAL END BACKPLANE
 SALES ASSEMBLY
 MOLEX INCORPORATED
 DOCUMENT NO.
 SHEET NO.
 2 OF 3

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