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Part Number:

0740611012

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, 80 Circuits, Pin Length 6.25mm (.246")

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

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

General

Product Family	Backplane Connectors
Series	74061
Application	Backplane
Application Tooling Documents	TM-622010999.pdf >Tooling Manual
Comments	Keying Position A
Component Type	PCB Header
Overview	vhdm
Product Name	VHDM®
Style	N/A

Physical

Circuits (Loaded)	80
Circuits (maximum)	80
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

Halogen-Free

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>0622020205</u>
Temperature Range - Operating	105°C max	Module for Advanced
Termination Interface: Style	Through Hole - Compliant Pin	Mate Signal Header,
Electrical		8 Row by 10 Wide,
Current - Maximum per Contact	1A	20.00mm (.787")
Data Rate	3.125 Gbps	VHDM® Insertion <u>0622020209</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	10 Wide, 20.00mm
Material Info		(.787")
		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		

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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

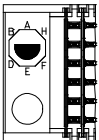
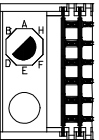
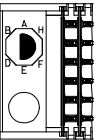
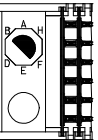
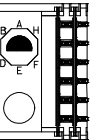
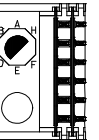
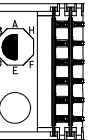
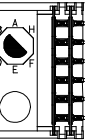
6. PACKAGE PER PK-74061-003

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



CORRECTED DIMS EC NO: UCP2008-0329 DRWN: JONI AK 2007/08/28 CHKD: JONI AK 2007/08/28 APPR: CBIXLER 2007/08/28			DESCRIPTION REV		QUALITY SYMBOLS ▽=0 ▽=0		GENERAL TOLERANCES (UNLESS SPECIFIED) <table><thead><tr><th></th><th>mm</th><th>INCH</th></tr></thead><tbody><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></tbody></table> ANGULAR ±1/2°			mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	DIMENSION STYLE MM ONLY DRAWN BY DATE MWANG 1998/11/09 CHECKED BY DATE JLAURX 1998/11/09 APPROVED BY DATE CBIXER 1998/11/09 MATERIAL NO.		SCALE 2.5:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION 		TITLE VHDM 8 ROW SIGNAL END BACKPLANE SALES ASSEMBLY  MOLEX INCORPORATED DOCUMENT NO. SD-74061-002 SHEET NO. 1 OF 3	
	mm	INCH																											
4 PLACES	± ---	± ---																											
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2 PLACES	± ---	± ---																											
1 PLACE	± ---	± ---																											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							SIZE B 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									

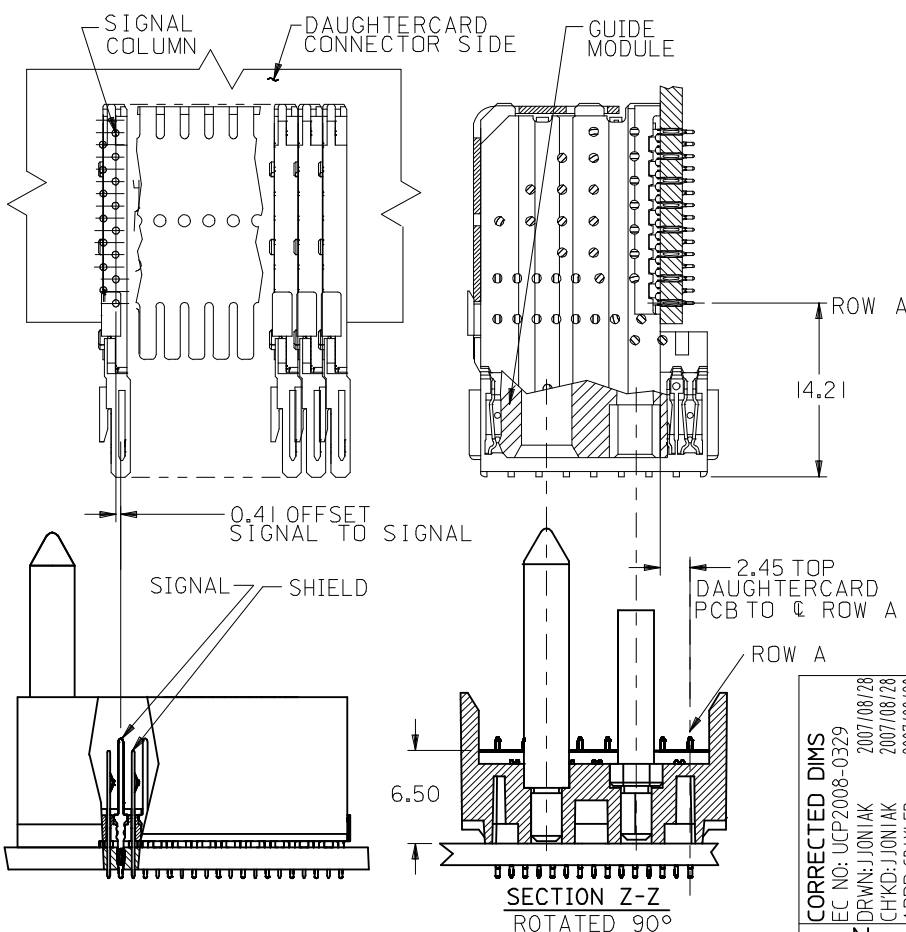
74061 - * * * *

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	4.75	0.76	
74061-0*8							1.27	
74061-5*3	25	200	25	57.00	48.00	6.25	0.76	
74061-5*8							1.27	
74061-0*4	10	80	10	27.00	18.00	4.25	0.76	
74061-0*9							1.27	
74061-5*4	25	200	25	57.00	48.00	5.15	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 N	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2°	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.	SCALE 2.5:1 TITLE VHDM 8 ROW SIGNAL END BACKPLANE SALES ASSEMBLY MOLEX INCORPORATED DOCUMENT NO. SD-74061-002 SHEET NO. 2 OF 3

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

SEE CHART

SIZE
B

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<http://moschip.ru/get-element>

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

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