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Part Number: [0740591013](#)
Status: **Active**
Overview: [vhdm](#)
Description: 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 6-Row, Guide Pin Signal Module, Shield End Version, Pin End Version, 60 Circuits, Pin Length 4.25mm (.167")

Documents:
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

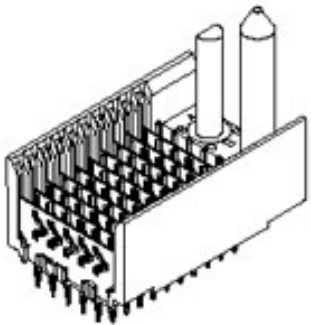
UL E29179

General

Product Family Backplane Connectors
Series [74059](#)
Application Backplane
Application Tooling Documents Tooling Manual
Comments Position A
Component Type PCB Header
Overview [vhdm](#)
Product Name VHDM®
Style N/A

Physical

Circuits (Loaded) 60
Circuits (maximum) 60
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 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 6
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) 0.039 In
Pitch - Term. Interface (mm) 2.00 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.75



Series

image - Reference only

EU RoHS
Not RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed



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
[74059Series](#)

Mates With
74030 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 #
Flat Rock Tooling for	0622013700
Pneumatic Press	
VHDM® Insertion	0622011101
Module for Advanced Mate Signal Header, 6 Row by 11 Wide, 20.00mm (.787")	
VHDM® Signal Pin	0622015700
Insert Repair Tool	

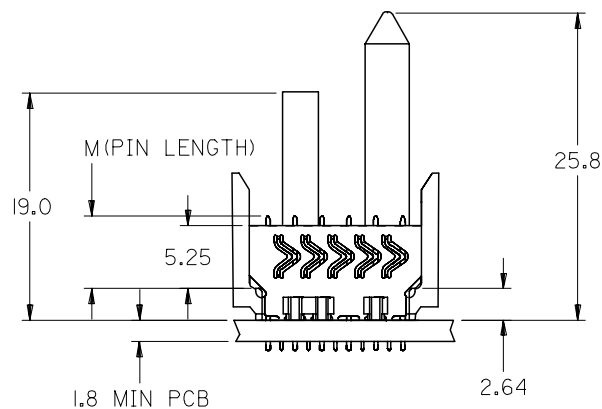
Plating min: Termination (µin)	30	VHDM® 6 Row Pin and Shield Repair Tool	0622015800
Plating min: Termination (µm)	0.75	VHDM® 6 Row Shield Extraction Tool	0622016000
Polarized to PCB	Yes	VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787")	0622020203
Stackable	No	VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787")	0622020207
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	3.125 Gbps		
Real Signals (per 25mm)	75		
Shield Type	Ground Plane Shield		
Shielded	Yes		
Voltage - Maximum	120V AC (RMS)/DC		
Material Info			
Reference - Drawing Numbers			
Sales Drawing	SD-74059-002		
VHDM and Very High Density Metric are trademarks of Amphenol Corporation			

This document was generated on 05/19/2010

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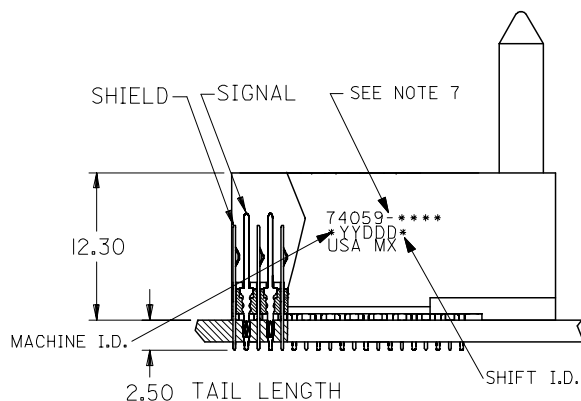


BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSIONS



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 AND 3
6. PACKAGE PER PK-74058-003
7. EITHER MARK PART WITH PART NUMBER & DATE
CODE APPROXIMATELY WHERE SHOWN OR PLACE
LABEL ON THE TUBE.



ADDED TOLERANCE			QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: UCP2006-2669							MM ONLY		2.5:1	METRIC		
2006/06/02							DRAWN BY		DATE	TITLE		
DRWN: JONI AK			▽=0		mm		MWANG		1998/11/09	VHDM 6 ROW		
2006/06/02			▽=0		INCH		CHECKED BY		DATE	SHIELD END BACKPLANE		
CHKD: JONI AK					4 PLACES ± --- ± ---		JLAURX		1998/11/09	SALES DRAWING		
2006/06/09					3 PLACES ± --- ± ---		APPROVED BY		DATE	MOLEX	MOLEX INCORPORATED	SHEET NO.
APPR: CBIXLER					2 PLACES ± 0.15 ± ---		CBIXLER		1998/11/19	DOCUMENT NO.	SD-74059-002	1 OF 3
					1 PLACE ± 0.25 ± ---		MATERIAL NO.					
					ANGULAR ±1/2°		SEE SHEET 2					
					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			

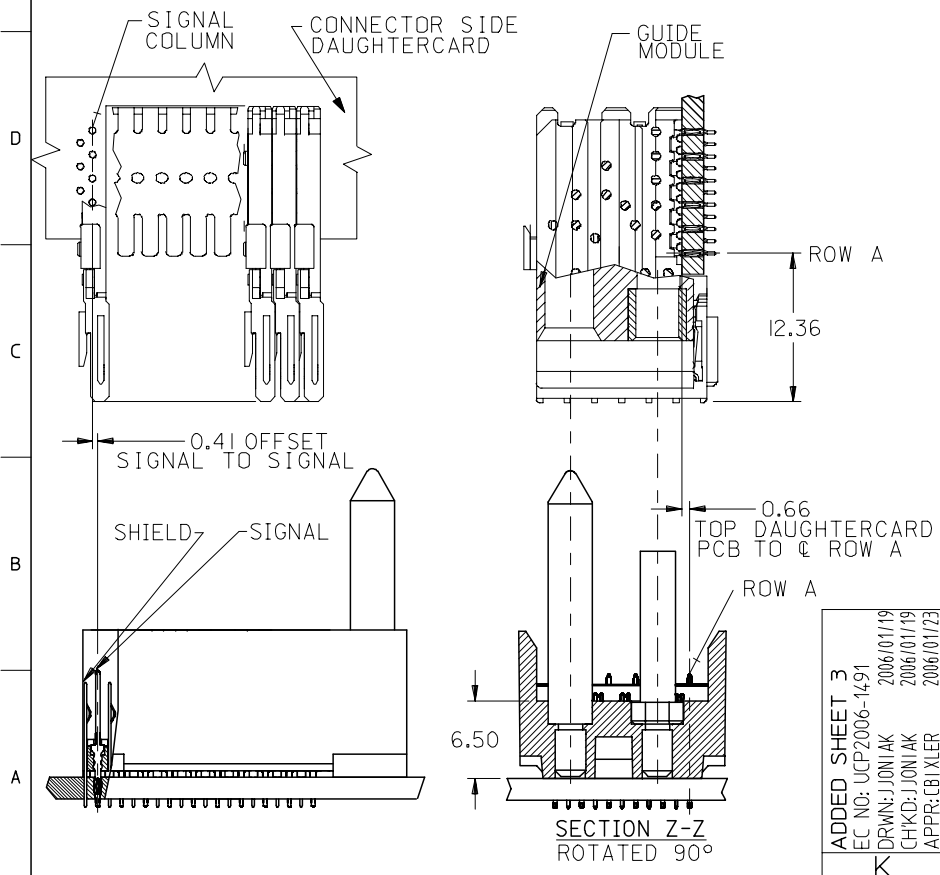
10 9 8 7 6 5 4 3 2 1

M/N 74059-()	-**0*	-**1*	-**2*	-**3*	-**4*	-**5*	-**6*	-**7*	-**8*
KEYING PIN ORIENTATION	O	A	B	C	D	E	F	G	H

74059- * * * *

NUMBER OF COLUMNS/PLATING
10 = 10 COLUMN TIN/LEAD
21 = 11 COLUMN TIN/LEAD*
25 = 25 COLUMN TIN/LEAD
90 = 10 COLUMN MATTE TIN
85 = 25 COLUMN MATTE TIN
81 = 11 COLUMN MATTE TIN*
CONTACT LOAD (PIN LENGTH)
1 & 6 = 4.75
2 & 7 = 6.25
3 & 8 = 4.25
4 & 9 = 5.15

* - SEE SHEET 3 FOR 11 COLUMN P/N'S



PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS	Sn (um) THICKNESS
74059-*0*1	10	60	10	27.00	18.00	4.75	0.76	0.76-1.52
74059-*0*6							1.27	
74059-*5*1	25	150	25	57.00	48.00		0.76	
74059-*5*6							1.27	
74059-*0*2	10	60	10	27.00	18.00	6.25	0.76	
74059-*0*7							1.27	
74059-*5*2	25	150	25	57.00	48.00		0.76	
74059-*5*7							1.27	
74059-*0*3	10	60	10	27.00	18.00	4.25	0.76	
74059-*5*3	25	150	25	57.00	48.00		0.76	
74059-*5*8							1.27	
74059-*0*4	10	60	10	27.00	18.00	5.15	0.76	
74059-*0*9							1.27	
74059-*5*4	25	150	25	57.00	48.00		0.76	
74059-*5*9							1.27	

ADDED SHEET 3
EC NO: UCP2006-1491
DRW: JONIAK 2006/01/19
CHKD: JONIAK 2006/01/19
APPR: CBIXLER 2006/01/23

DESCRIPTION
REV

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
VHDM 6 ROW
SHIELD END BACKPLANE
SALES DRAWING

DESIGN UNITS
METRIC
THIRD ANGLE
PROJECTION

MOLEX INCORPORATED
SD-74059-002

SHEET NO.
2 OF 3

9 8 7 6 5 4 3 2 1