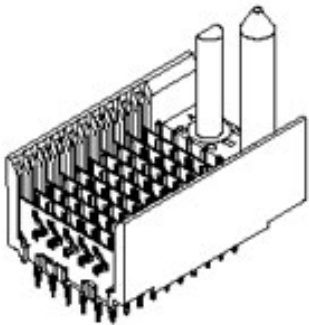


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Part Number: [0740592513](#)
Status: **Active**
Overview: [vhdm](#)
Description: 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 6-Row, Guide Pin Signal Module, Shield End Version, Pin End Version, 150 Circuits, Pin Length 4.25mm (.167")

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

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)	150
Circuits (maximum)	150
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	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
Plating min: Termination (µin)	30
Plating min: Termination (µm)	0.75
Polarized to PCB	Yes
Stackable	No



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	
<i>Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.</i>	
Global	
Description	Product #
Flat Rock Tooling for Pneumatic Press	0622013700
VHDM® Signal Pin Inserter Repair Tool	0622015700
VHDM® 6 Row Pin and Shield Repair Tool	0622015800
VHDM® 6 Row Shield Extraction Tool	0622016000

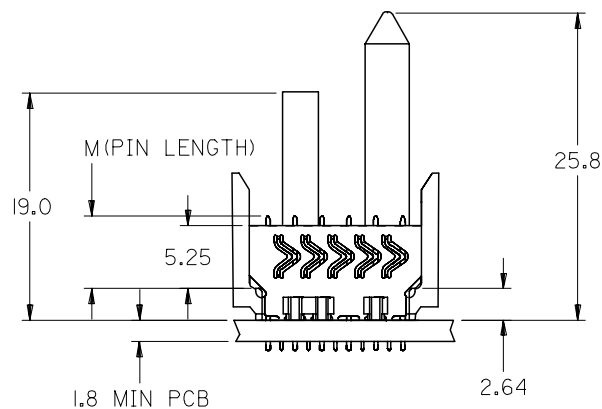
Surface Mount Compatible (SMC)	Yes	VHDM® Insertion <u>0622020204</u>
Temperature Range - Operating	-55°C to +105°C	Module for Advanced
Termination Interface: Style	Through Hole - Compliant Pin	Mate Signal Header,
Electrical		6 Row by 25 Wide,
Current - Maximum per Contact	1A	50.00mm (1.97")
Data Rate	3.125 Gbps	VHDM® Insertion <u>0622020208</u>
Real Signals (per 25mm)	75	Module for Standard
Shield Type	Ground Plane Shield	Shield Signal
Shielded	Yes	Header, 6 Row by
Voltage - Maximum	120V AC (RMS)/DC	25 Wide, 50.00mm
		(1.97")
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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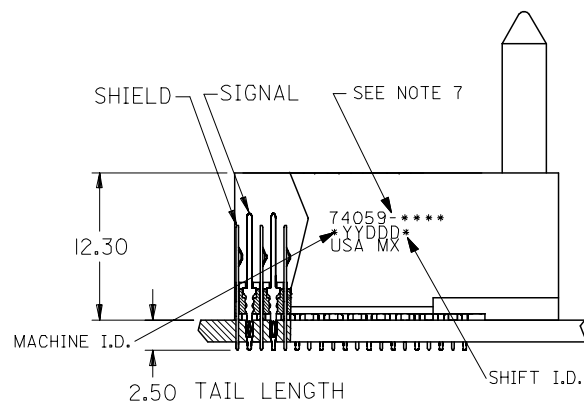


BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSIONS



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	
APPR: CBI XLER					2 PLACES ± 0.15 ± ---		CB I XLER		1998/11/19	DOCUMENT NO.	SHEET NO.	
					1 PLACE ± 0.25 ± ---		MATERIAL NO.					
					ANGULAR ±1/2°		SEE SHEET 2		SD-74059-002		1 OF 3	
DRAFT WHERE APPLICABLE							SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX			
MUST REMAIN							B		INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
WITHIN DIMENSIONS												

10 9 8 7 6 5 4 3 2 1

M/N
74059-()

---0*

---1*

---2*

---3*

---4*

---5*

---6*

---7*

---8*

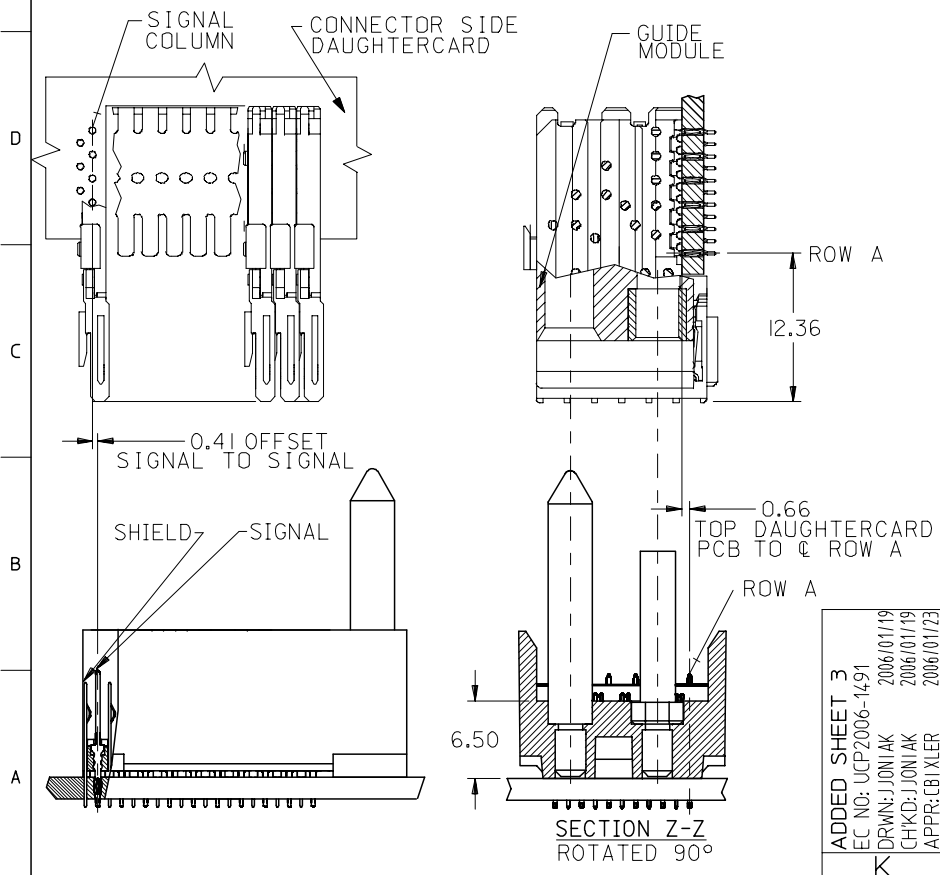
KEYING PIN
ORIENTATION

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	6.25	0.76	
74059-*5*6							1.27	
74059-*0*2	10	60	10	27.00	18.00	4.25	0.76	
74059-*0*7							1.27	
74059-*5*2	25	150	25	57.00	48.00	5.15	0.76	
74059-*5*7							1.27	
74059-*0*3	10	60	10	27.00	18.00	4.75	0.76	
74059-*0*8							1.27	
74059-*5*3	25	150	25	57.00	48.00	6.25	0.76	
74059-*5*8							1.27	
74059-*0*4	10	60	10	27.00	18.00	4.25	0.76	
74059-*0*9							1.27	
74059-*5*4	25	150	25	57.00	48.00	5.15	0.76	
74059-*5*9							1.27	



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Электрон
Связь**

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