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Part Number:

0740591004

Status:

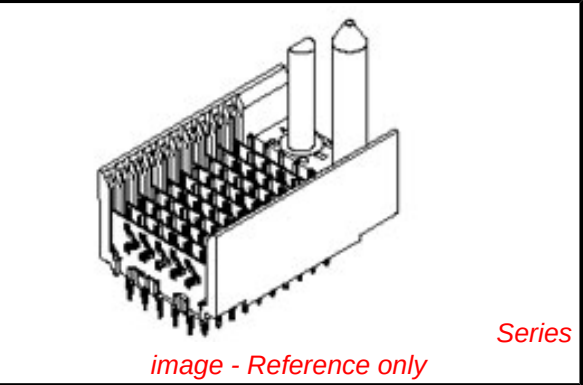
Active

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 5.15mm (.203")



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	No Keying Position
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	None
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

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

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 Pneumatic Press	0622013700
VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 11 Wide, 20.00mm (.787")	0622011101
VHDM® Signal Pin Inserter Repair Tool	0622015700

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

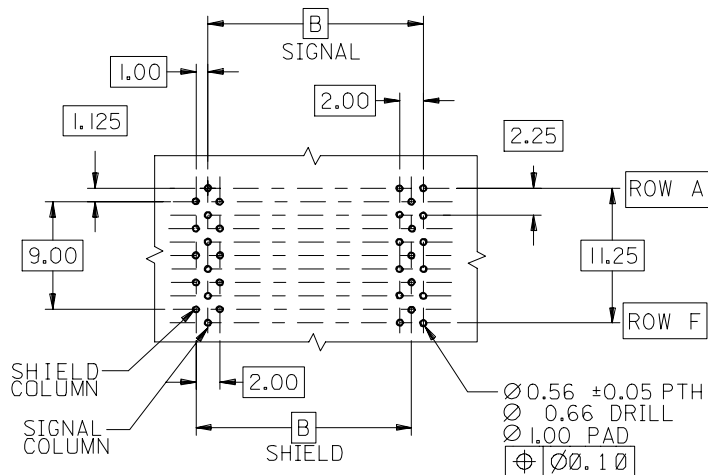
Sales Drawing	SD-74059-002
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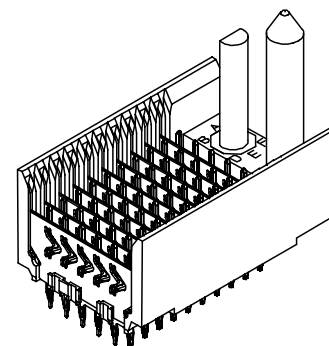
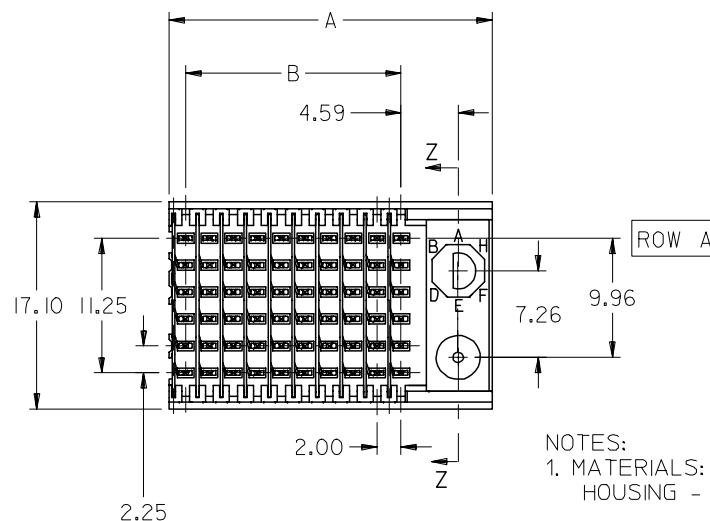
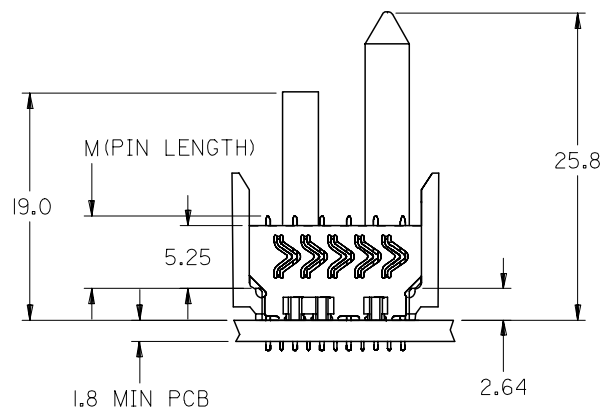
VHDM® 6 Row Pin and Shield Repair Tool	0622015800
VHDM® 6 Row Shield Extraction Tool	0622016000
VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787")	0622020203
VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787")	0622020207

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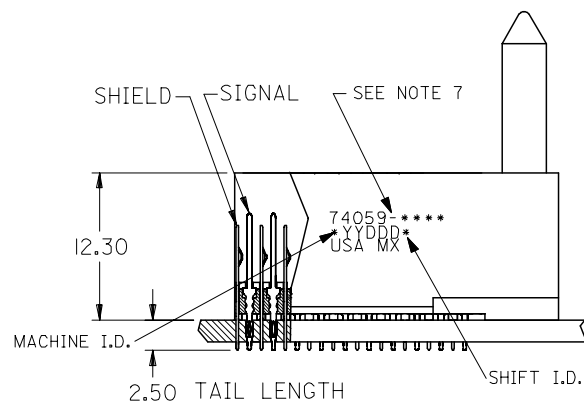


BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSIONS



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 EC NO: UCP2006-2669 DRWN: JONIAK 2006/06/02 CHKD: JONIAK 2006/06/02 APPR: CBIXLER 2006/06/09				QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mmINCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.15 ± --- 1 PLACE ± 0.25 ± --- 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 1998/11/19 MATERIAL NO.		SCALE 2.5:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
DESCRIPTION					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		TITLE VHDM 6 ROW SHIELD END BACKPLANE SALES DRAWING		MOLEX MOLEX INCORPORATED				
							SEE SHEET 2						
REV							DOCUMENT NO. SD-74059-002		SHEET NO. 1 OF 3				
M					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*

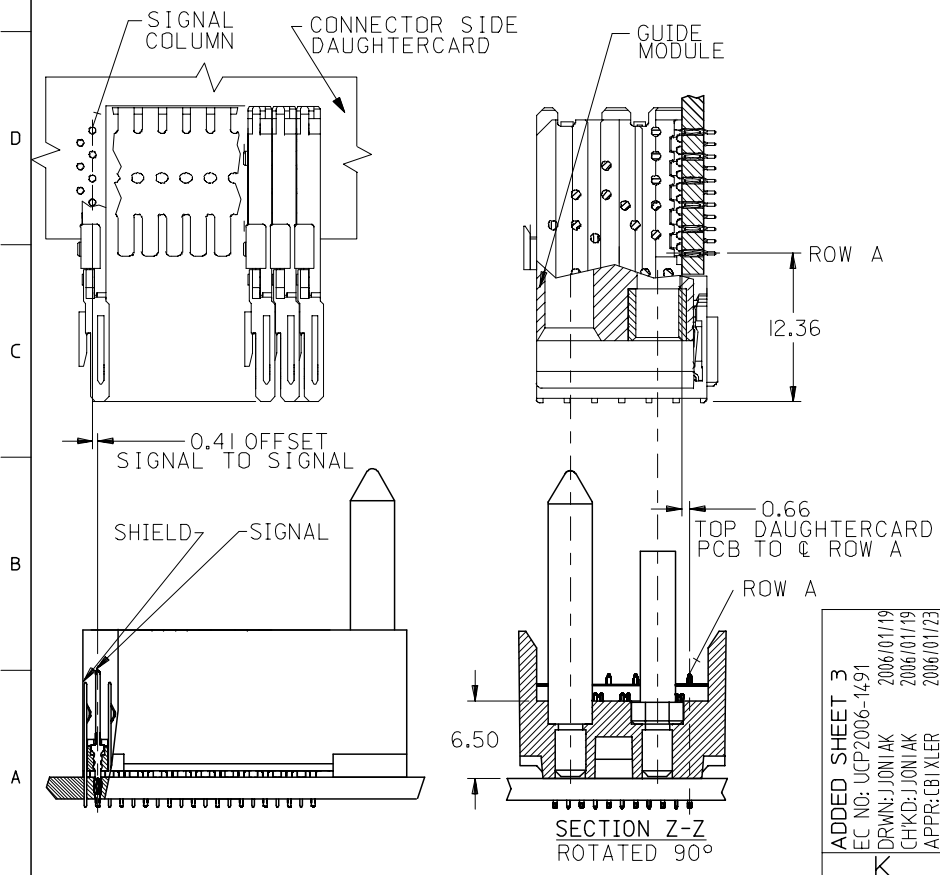
KEYING PIN
ORIENTATION

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	

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

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.
SEE CHART

SCALE
2.5:1
DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION

VHDM 6 ROW
SHIELD END BACKPLANE
SALES DRAWING
MOLEX INCORPORATED
SD-74059-002
SHEET NO.
2 OF 3

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

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