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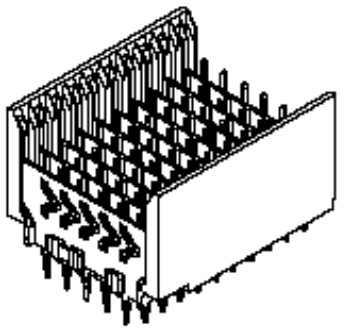
Part Number: 0740571007
Status: Active
Overview: vhdm
Description: 2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 6-Row, Open Signal Module, 60 Circuits, 10 Columns, Pin Length 6.25mm (.246"), 1.27µm (50µ") Gold (Au) Plating



Series image - Reference only

Documents:
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

UL	E29179

General

Product Family	Backplane Connectors
Series	74057
Application	Backplane
Application Tooling Documents	Tooling Manual
Comments	Open Header
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	No
Keying to Mating Part	None
Material - Metal	Beryllium Copper, High Performance Alloy (HPA)
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)	0.071 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)	50
Plating min: Mating (µm)	1.25

EU RoHS
RoHS Compliant by Exemption
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

China RoHS
50
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
74057Series

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	Yes
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	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

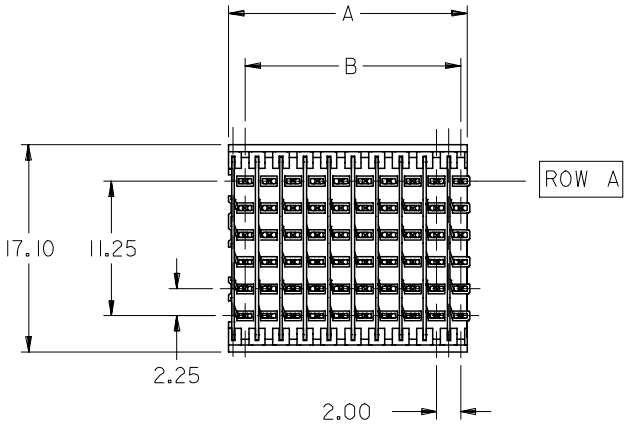
Material Info

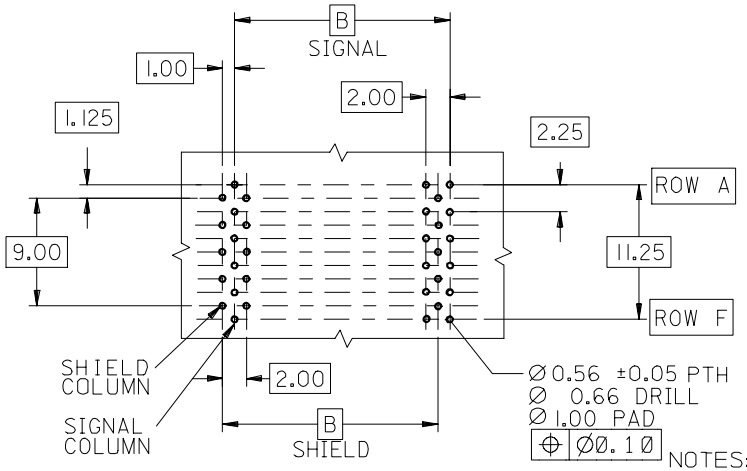
Reference - Drawing Numbers

Packaging Specification	PK-74057-003
Sales Drawing	SD-74057-002

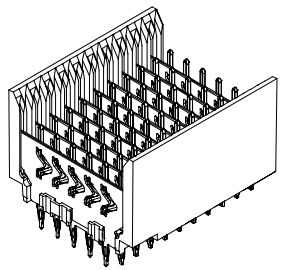
VHDM and Very High Density Metric are trademarks of Amphenol Corporation

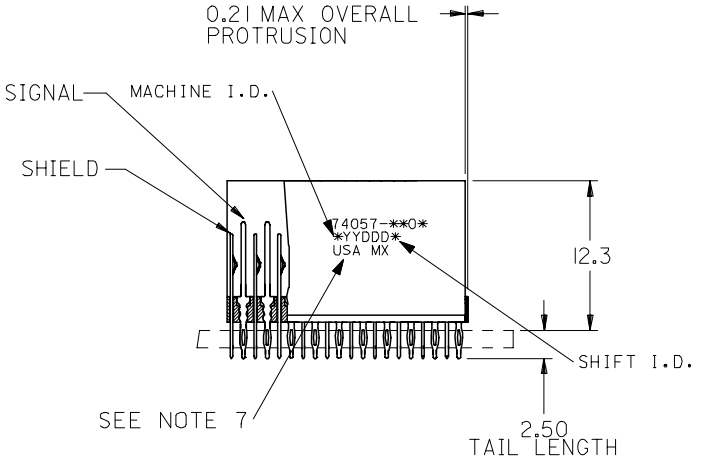
VHDM® 6 Row Pin and Shield Repair Tool	0622015800
VHDM® 6 Row Shield Extraction Tool	0622016000
VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787")	0622020203
VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 10 Wide, 20.00mm (.787")	0622020207

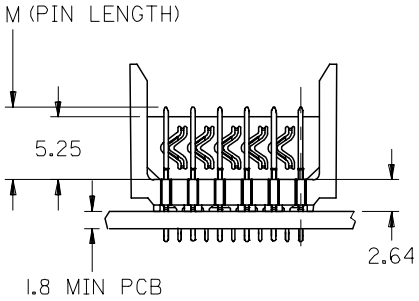




BACKPLANE HOLE PATTERN
RECOMMENDED DIMENSIONS







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
6. PACKAGE PER PK-74057-003
7. EITHER MARK PART WITH PART NUMBER & DATE CODE APPROXIMATELY WHERE SHOWN OR PLACE LABEL ON THE TUBE.

REV	DESCRIPTION	
K	ADDED 15 COLUMN	2006/01/19
	EC NO: UCP2006-1491	2006/01/19
	DRWN: JJONIAK	2006/01/23
	CH'KD: JJONIAK	
	APPR: CBIXLER	

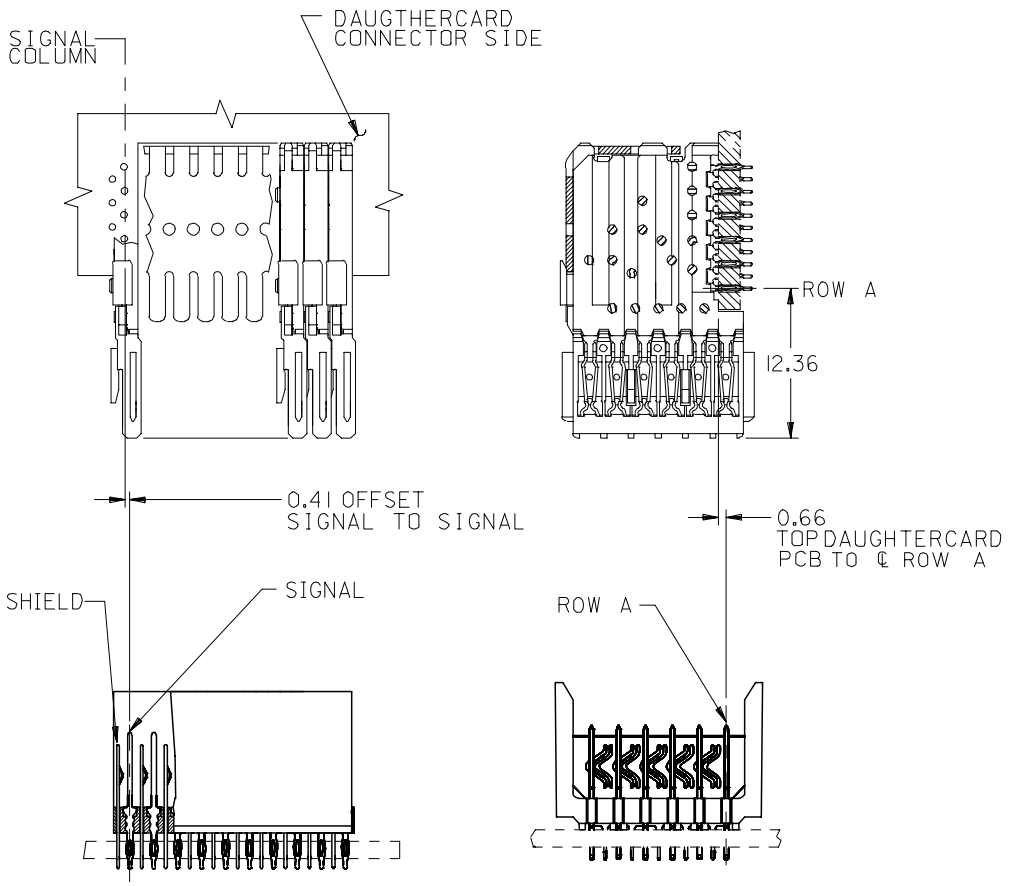
QUALITY SYMBOLS
▼=0
▽=0

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
SCALE	2.5:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	MWANG
DATE	1998/11/09
CHECKED BY	JLAURX
DATE	1998/11/09
APPROVED BY	CBIXLER
DATE	1998/11/09
TITLE	VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY
	MOLEX INCORPORATED
MATERIAL NO.	SEE SHEET 3
DOCUMENT NO.	SD-74057-002
SHEET NO.	1 OF 3
SIZE	B



MATERIAL NUMBER ASSIGNMENT

74057-** ** SEE TABLES (SHEET 3)

NUMBER OF COLUMNS/PLATING
- 10 = 10 COLUMN TIN/LEAD
- 15 = 15 COLUMN TIN/LEAD
- 25 = 25 COLUMN TIN/LEAD
- 90 = 10 COLUMN MATTE TIN
- 95 = 15 COLUMN MATTE TIN
- 85 = 25 COLUMN MATTE TIN

REV	DESCRIPTION	
K	ADDED 15 COLUMN EC NO: UCP2006-1491	2006/01/19
	DRWN: JJONIAK	2006/01/19
	CH'KD: JJONIAK	
	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°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	MWANG
DATE	1998/11/09
CHECKED BY	JLAURX
DATE	1998/11/09
APPROVED BY	CBIXLER
DATE	1998/11/09
TITLE	VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY
	MOLEX INCORPORATED
MATERIAL NO.	SEE SHEET 3
DOCUMENT NO.	SD-74057-002
SHEET NO.	2 OF 3
SIZE	B

PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS
74057-1001	10	60	10	20.00	18.00	4.75	0.76
74057-1006							1.27
74057-1501	15	90	15	30.00	28.00		0.76
74057-1506							1.27
74057-2501	25	150	25	50.00	48.00		0.76
74057-2501							1.27
74057-1002	10	60	10	20.00	18.00	6.25	0.76
74057-1007							1.27
74057-1502	15	90	15	30.00	28.00		0.76
74057-1507							1.27
74057-2502	25	150	25	50.00	48.00		0.76
74057-2507							1.27
74057-1003	10	60	10	20.00	18.00	4.25	0.76
74057-1008							1.27
74057-1503	15	90	15	30.00	28.00		0.76
74057-1508							1.27
74057-2503	25	150	25	50.00	48.00		0.76
74057-2508							1.27
74057-1004	10	60	10	20.00	18.00	5.15	0.76
74057-1009							1.27
74057-1504	15	90	15	30.00	28.00		0.76
74057-1509							1.27
74057-2504	25	150	25	50.00	48.00		0.76
74057-2509							1.27

TIN/LEAD CHART

PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS
74057-9001	10	60	10	20.00	18.00	4.75	0.76
74057-9006							1.27
74057-9501	15	90	15	30.00	28.00		0.76
74057-9506							1.27
74057-8501	25	150	25	50.00	48.00		0.76
74057-8501							1.27
74057-9002	10	60	10	20.00	18.00	6.25	0.76
74057-9007							1.27
74057-9502	15	90	15	30.00	28.00		0.76
74057-9507							1.27
74057-8502	25	150	25	50.00	48.00		0.76
74057-8507							1.27
74057-9003	10	60	10	20.00	18.00	4.25	0.76
74057-9008							1.27
74057-9503	15	90	15	30.00	28.00		0.76
74057-9508							1.27
74057-8503	25	150	25	50.00	48.00		0.76
74057-8508							1.27
74057-9004	10	60	10	20.00	18.00	5.15	0.76
74057-9009							1.27
74057-9504	15	90	15	30.00	28.00		0.76
74057-9509							1.27
74057-8504	25	150	25	50.00	48.00		0.76
74057-8509							1.27

LEAD FREE CHART

REV | DESCRIPTION | DATE
K | ADDED 15 COLUMN EC NO: UCP2006-1491 | 2006/01/19
DRWN: J JONIAK | 2006/01/19
CH'KD: J JONIAK | 2006/01/23
APPR: CB IXLER

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
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: J JONIAK DATE: 2006/01/10
CHECKED BY: J JONIAK DATE: 2006/01/10
APPROVED BY: J JONIAK DATE: 2006/01/10

TITLE: VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SD-74057-002
SHEET NO.: 3 OF 3

SIZE: B