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Part Number: [0740571001](#)
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 4.75mm (.187"), 0.76µm (30µ") Gold (Au) Plating

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

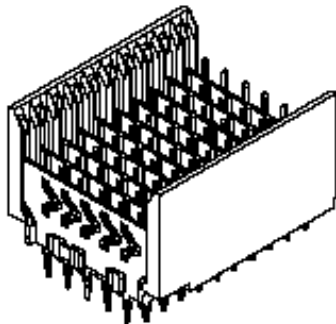
UL E29179

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) 30
Plating min: Mating (µm) 0.75



Series

image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No Halogen-Free

Status

Halogen-Free

China RoHS



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

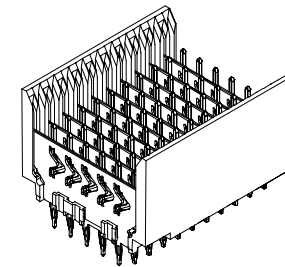
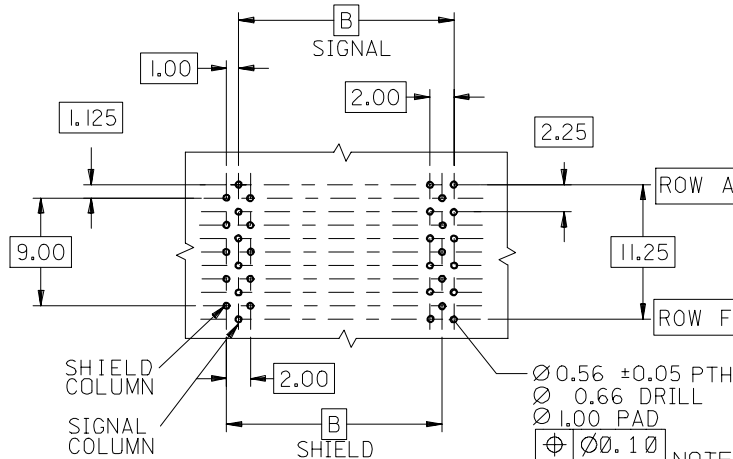
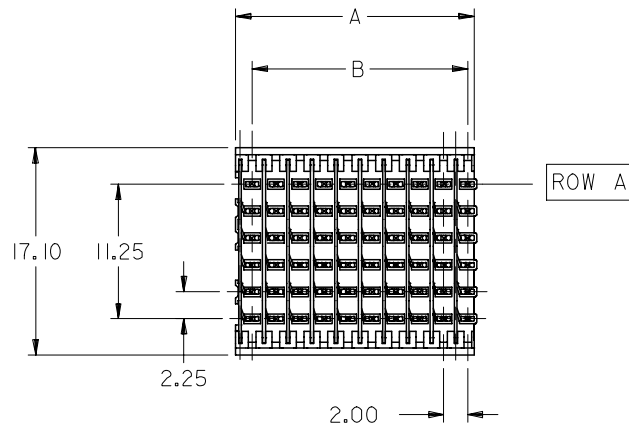
Packaging Specification	PK-74057-003
Sales Drawing	SD-74057-002

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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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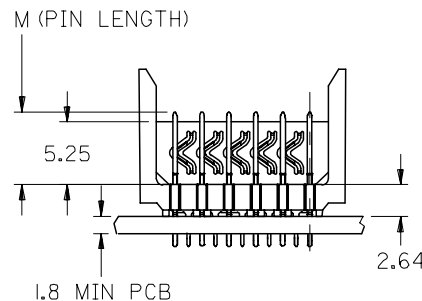
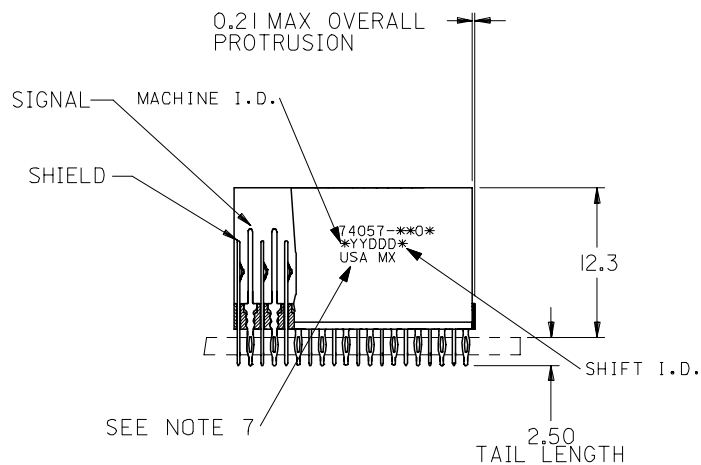
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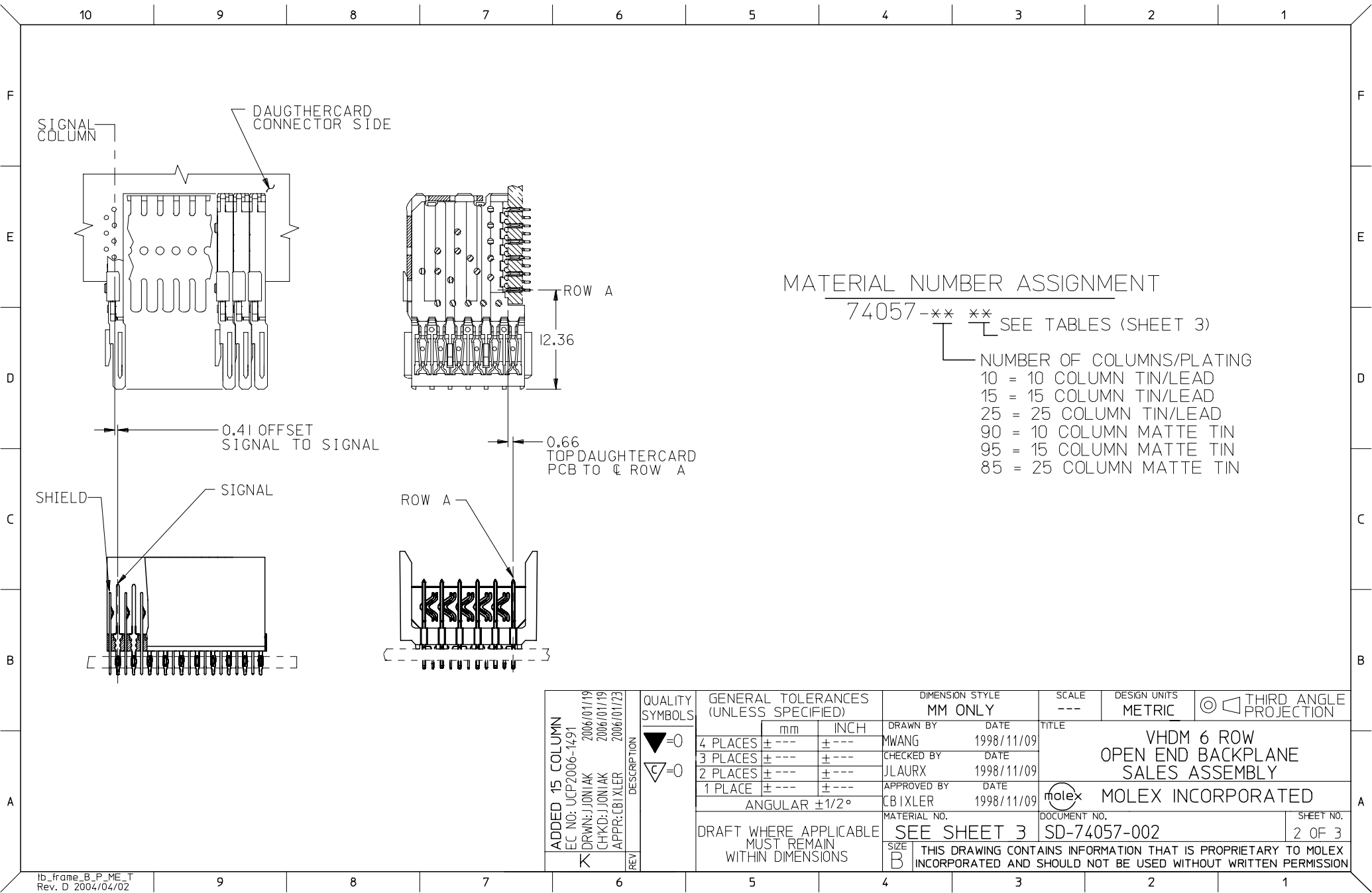
BACKPLANE HOLE PATTERN RECOMMENDED DIMENSIONS

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



ADDED 15 COLUMN EC NO: UCP2006-1491 DRWN: JONIAK 2006/01/19 CHKD: JONIAK 2006/01/19 APPR: CBIXLER 2006/01/23 K		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2.5:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				DRAWN BY MWANG		DATE 1998/11/09	TITLE VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY			
				CHECKED BY JLAURX		DATE 1998/11/09				
				APPROVED BY		DATE	MOLEX INCORPORATED			
				CBIXLER		1998/11/09				
				ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.	SHEET NO.	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 3		SD-74057-002		1 OF 3
		REV				SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



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

ADDED 15 COLUMN EC NO: UCP2006-1491 DRWN: JONIAK 2006/01/19 CHKD: JONIAK 2006/01/19 APPR: CBIXLER 2006/01/23 K	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY MWANG	DATE 1998/11/09	TITLE VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY		
			4 PLACES	± ---	± ---	CHECKED BY JLAURX	DATE 1998/11/09			
			3 PLACES	± ---	± ---	APPROVED BY CBIXLER	DATE 1998/11/09			
			2 PLACES	± ---	± ---	MATERIAL NO. SEE SHEET 3				DOCUMENT NO. SD-74057-002
			1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
			ANGULAR ±1/2°		MOLEX INCORPORATED					

10	9	8	7	6	5	4	3	2	1						
PART NUMBER	COLUMN	NUMBER OF SIGNAL PIN	NUMBER OF SHIELD	A	B	M	Au (um) THICKNESS	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	74057-9001	10	60	10	20.00	18.00	4.75	0.76
74057-1006							1.27	74057-9006							1.27
74057-1501	15	90	15	30.00	28.00		0.76	74057-9501	15	90	15	30.00	28.00		0.76
74057-1506							1.27	74057-9506							1.27
74057-2501	25	150	25	50.00	48.00		0.76	74057-8501	25	150	25	50.00	48.00		0.76
74057-2501							1.27	74057-8501							1.27
74057-1002	10	60	10	20.00	18.00	6.25	0.76	74057-9002	10	60	10	20.00	18.00	6.25	0.76
74057-1007							1.27	74057-9007							1.27
74057-1502	15	90	15	30.00	28.00		0.76	74057-9502	15	90	15	30.00	28.00		0.76
74057-1507							1.27	74057-9507							1.27
74057-2502	25	150	25	50.00	48.00		0.76	74057-8502	25	150	25	50.00	48.00		0.76
74057-2507							1.27	74057-8507							1.27
74057-1003	10	60	10	20.00	18.00	4.25	0.76	74057-9003	10	60	10	20.00	18.00	4.25	0.76
74057-1008							1.27	74057-9008							1.27
74057-1503	15	90	15	30.00	28.00		0.76	74057-9503	15	90	15	30.00	28.00		0.76
74057-1508							1.27	74057-9508							1.27
74057-2503	25	150	25	50.00	48.00		0.76	74057-8503	25	150	25	50.00	48.00		0.76
74057-2508							1.27	74057-8508							1.27
74057-1004	10	60	10	20.00	18.00	5.15	0.76	74057-9004	10	60	10	20.00	18.00	5.15	0.76
74057-1009							1.27	74057-9009							1.27
74057-1504	15	90	15	30.00	28.00		0.76	74057-9504	15	90	15	30.00	28.00		0.76
74057-1509							1.27	74057-9509							1.27
74057-2504	25	150	25	50.00	48.00		0.76	74057-8504	25	150	25	50.00	48.00		0.76
74057-2509							1.27	74057-8509							1.27

TIN/LEAD CHART

LEAD FREE CHART

ADDED 15 COLUMN EC NO: UCP2006-1491 DRAWN: JONI AK 2006/01/19 CHK'D: JONI AK 2006/01/19 APPR: CB XLER 2006/01/23	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY				
			4 PLACES	± ---	± ---	J JON IAK	2006/01/10					
			3 PLACES	± ---	± ---	CHECKED BY	DATE					
			2 PLACES	± ---	± ---	J JON IAK	2006/01/10					
			1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
			ANGULAR ±1/2°		J JON IAK	2006/01/10						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
						SEE CHARTS		SD-74057-002		3 OF 3		
						SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
K	REV											

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