

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0740572502

Status:

Active

Overview:

vhdm

Description:

2.00mm (.079") Pitch VHDM® Board-to-Board Backplane Header, Vertical, 6-Row, Open Signal Module, 150 Circuits, 25 Columns, Pin Length 6.25mm (.246"), 0.76µm (30µ") Gold (Au) Plating

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)

150

Circuits (maximum)

150

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

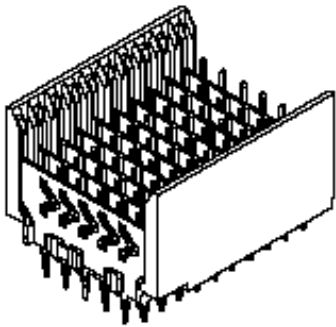


image - Reference only

Series

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® Signal Pin Inserter Repair Tool

0622015700

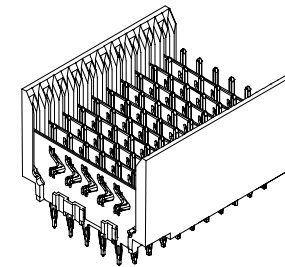
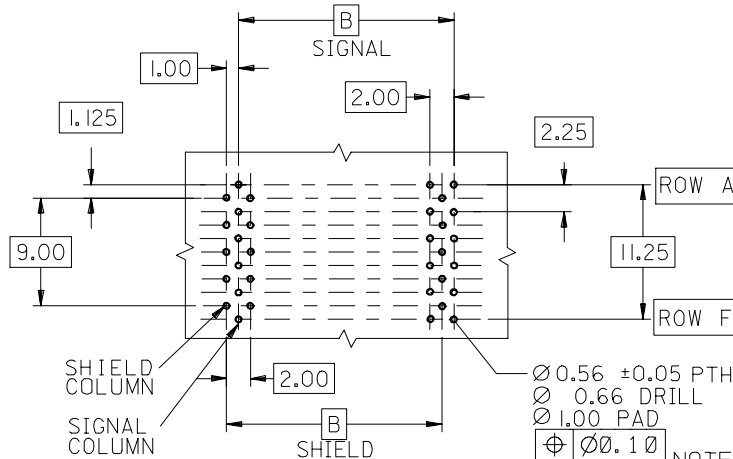
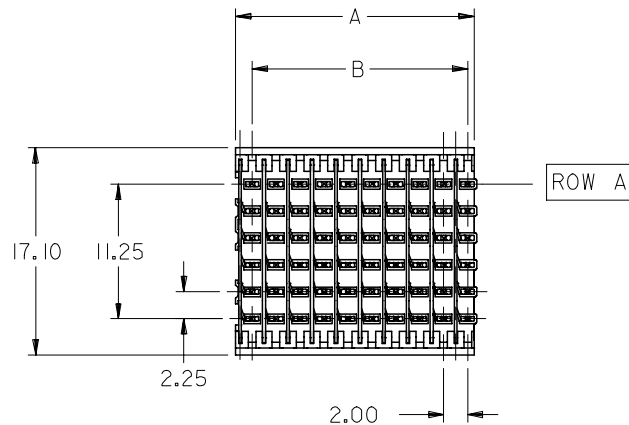
VHDM® 6 Row Pin and Shield Repair Tool

0622015800

Plating min: Termination (µin)	30	VHDM® 6 Row Shield Extraction Tool	0622016000
Plating min: Termination (µm)	0.75	VHDM® Insertion Module for Advanced Mate Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")	0622020204
Polarized to PCB	Yes	VHDM® Insertion Module for Standard Shield Signal Header, 6 Row by 25 Wide, 50.00mm (1.97")	0622020208
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			

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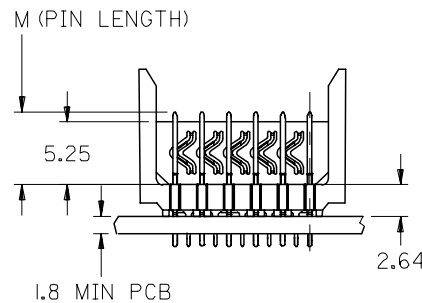
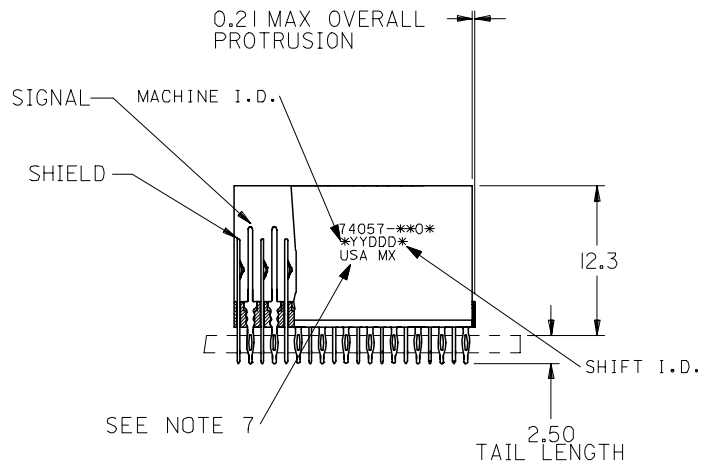
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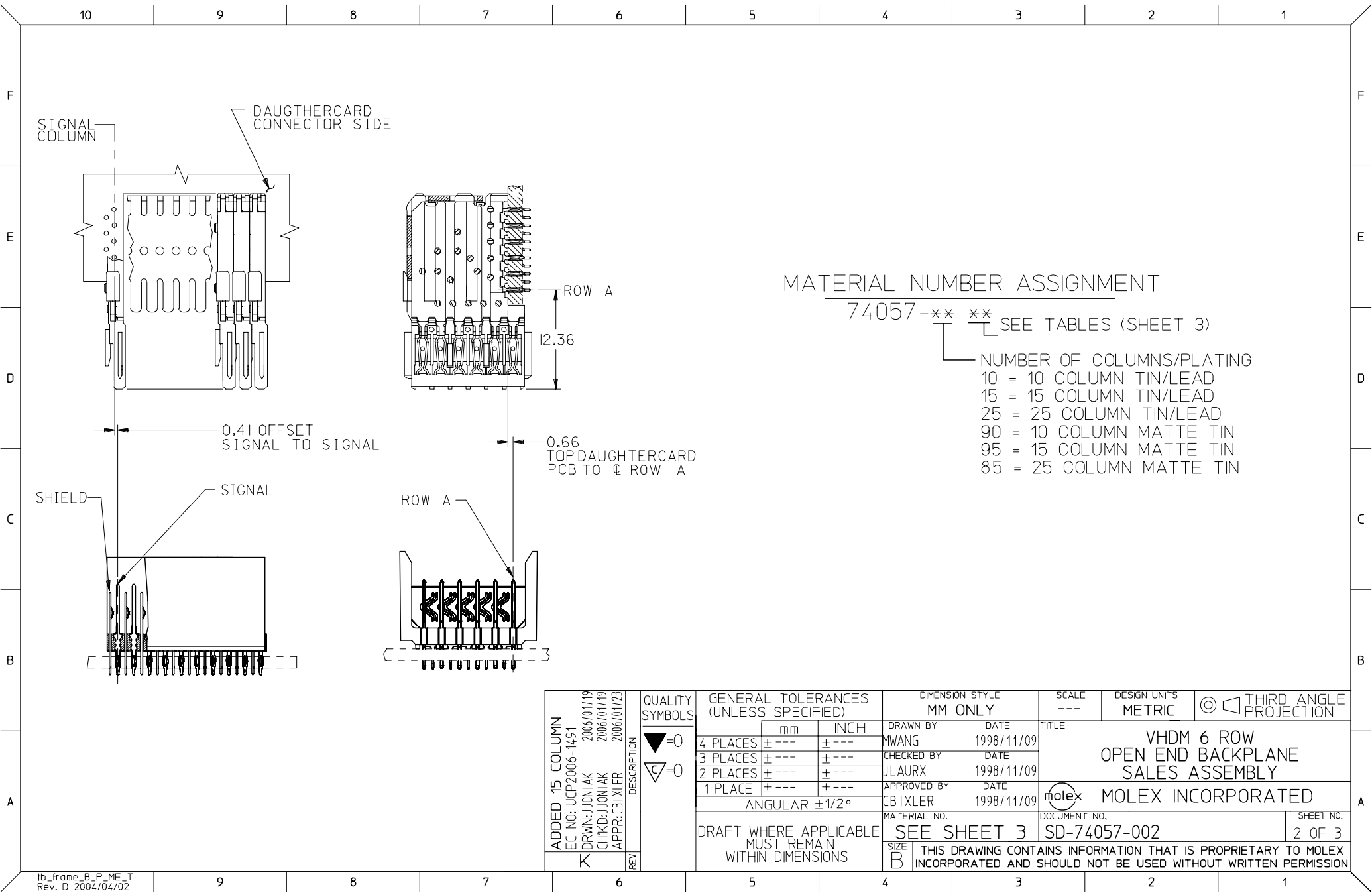
BACKPLANE HOLE PATTERN RECOMMENDED DIMENSIONS

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	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2.5:1	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		MOLEX INCORPORATED			
			2 PLACES	± ---	± ---								
			1 PLACE	± ---	± ---								
			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							
K	REV	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	± ---	± ---				
			2 PLACES	± ---	± ---				
			1 PLACE	± ---	± ---	APPROVED BY CBIXLER	DATE 1998/11/09	 MOLEX INCORPORATED	
			ANGULAR ±1/2°		MATERIAL NO. SEE SHEET 3		DOCUMENT NO. SD-74057-002		
REV			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						
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 IAK 2006/01/19 CHK'D: JONI IAK 2006/01/19 APPR: CB IXLER 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 J JON IAK	DATE 2006/01/19	TITLE VHDM 6 ROW OPEN END BACKPLANE SALES ASSEMBLY				
			4 PLACES	± ---	± ---	CHECKED BY J JON IAK	DATE 2006/01/19					
			3 PLACES	± ---	± ---	APPROVED BY J JON IAK		DATE 2006/01/19	MOLEX MOLEX INCORPORATED			
			2 PLACES	± ---	± ---							
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			ANGULAR ±1/2°			SEE CHARTS		SD-74057-002		3 OF 3		
			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						