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Part Number: [0459858914](#)
Status: **Active**
Overview: [extreme_lphpower](#)
Description: 12.00mm (.472") Pitch, EXTreme LPHPower™ Header, Right Angle, 8 Power Contacts, Select Gold (Au) Plating, for 3.18mm (.125") Thick PC Board with Guide and Press-fit Plastic Pegs

Documents:
[3D Model](#) [Product Specification PS-45984-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA	LR19980
TUV	30683046
UL	E29179

General

Product Family	PCB Headers
Series	45985
Application	Board-to-Board
Comments	8 Power Blades
Overview	extreme_lphpower
Product Name	EXTreme LPHPower™

Physical

Breakaway	No
Circuits (Loaded)	8
Circuits (maximum)	8
Circuits Detail	8 Power, No Signal
Color - Resin	Black
Durability (mating cycles max)	250
First Mate / Last Break	Yes
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	None
Lock to Mating Part	No
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.177 In
PC Tail Length (mm)	4.50 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.125 In
PCB Thickness Recommended (mm)	3.18 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.472 In
Pitch - Mating Interface (mm)	12.00 mm
Pitch - Term. Interface (in)	0.079 In, 0.098 In
Pitch - Term. Interface (mm)	2.00 mm, 2.50 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75



image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

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
[45985Series](#)

Mates With
[45984](#) EXTreme LPHPower™ PCB
Receptacles

Plating min: Termination (μin)	150
Plating min: Termination (μm)	3.75
Polarized to Mating Part	Yes
Polarized to PCB	No
Shrouded	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	23A
Voltage - Maximum	250V AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	15
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	230

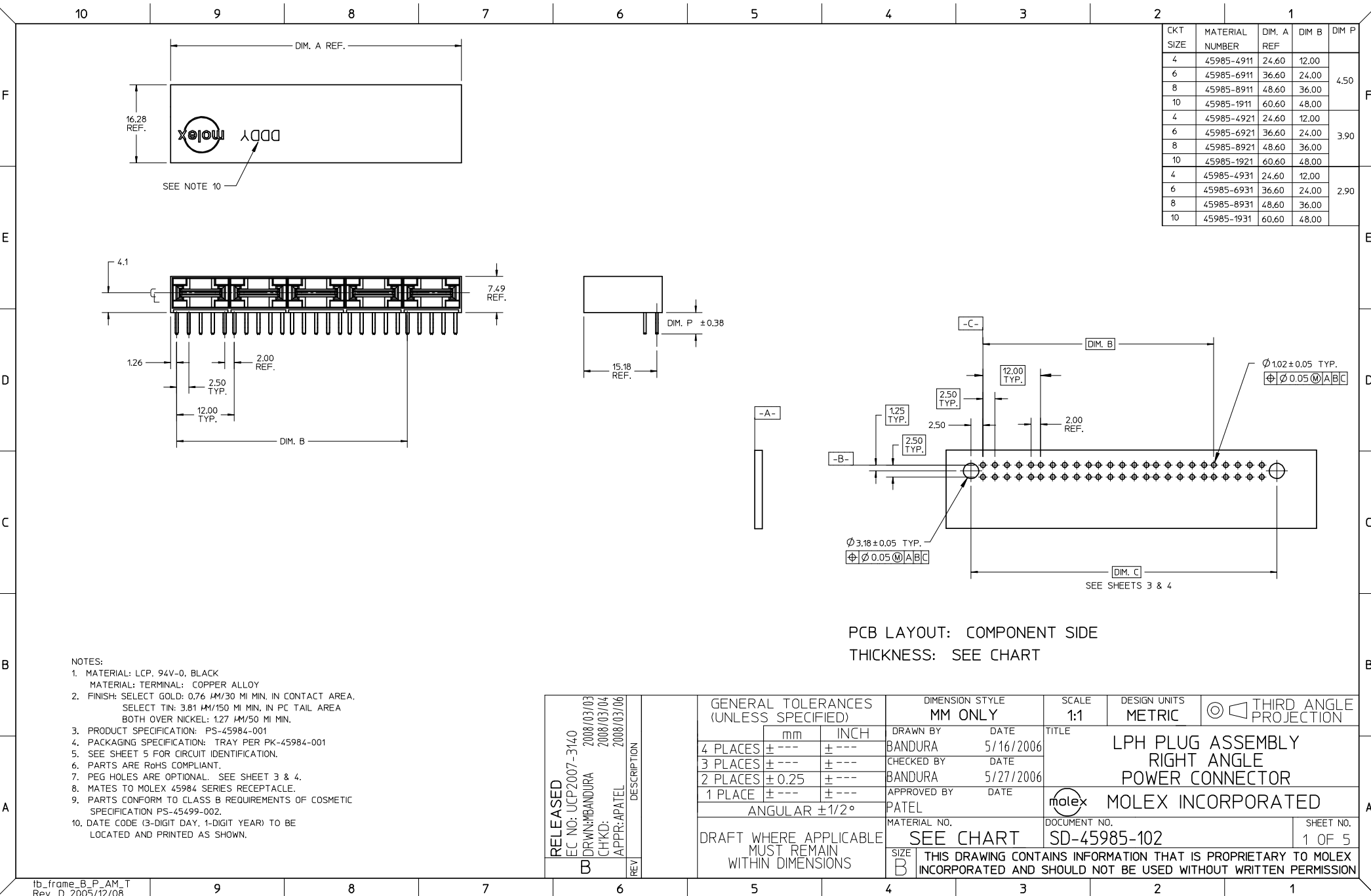
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-45984-001
Product Specification	PS-45984-001
Sales Drawing	SD-45985-102

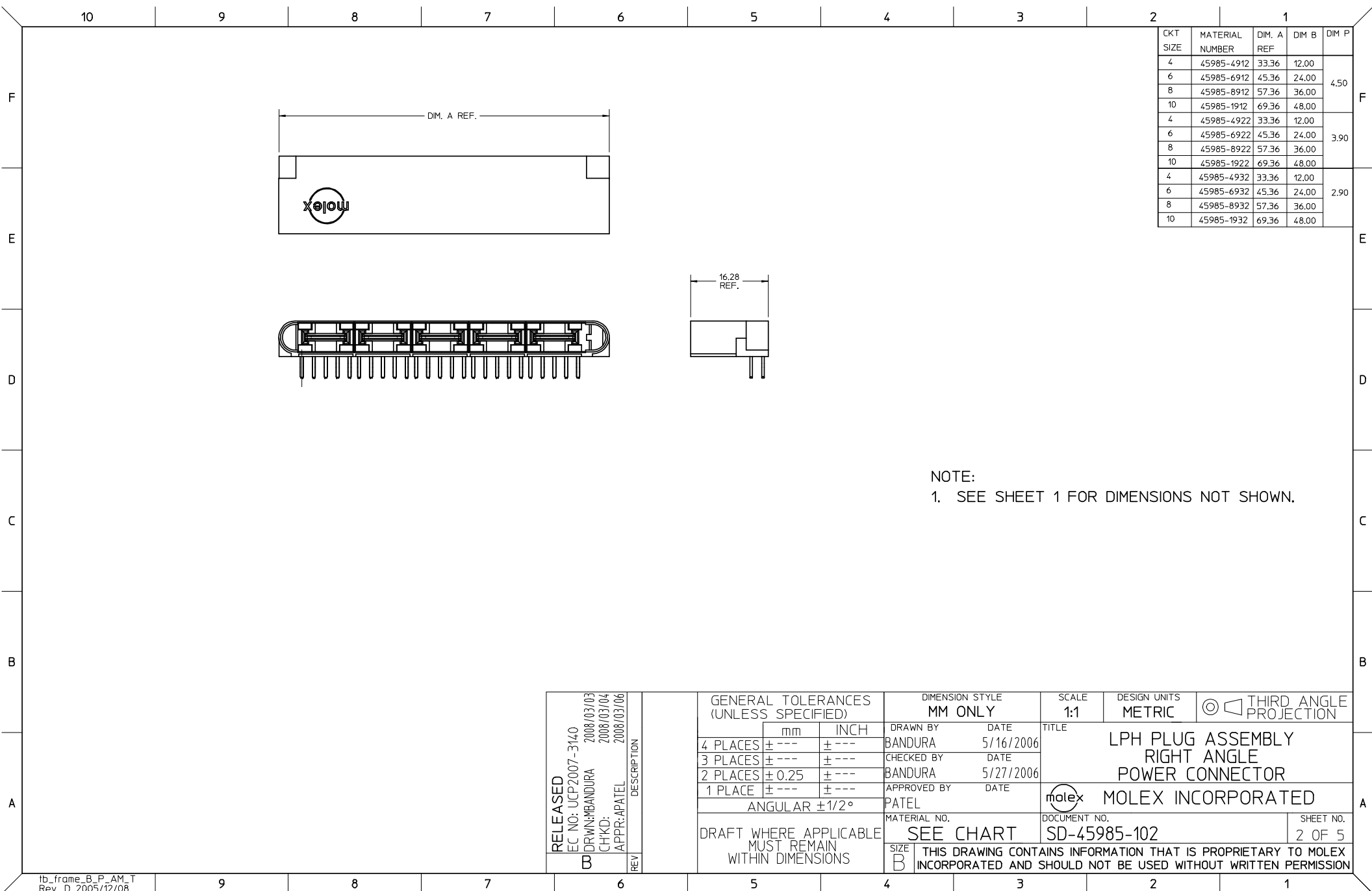
This document was generated on 05/25/2010

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- NOTES:
1. MATERIAL: LCP, 94V-0, BLACK
MATERIAL: TERMINAL: COPPER ALLOY
 2. FINISH: SELECT GOLD: 0.76 μ M/30 MI MIN. IN CONTACT AREA.
SELECT TIN: 3.81 μ M/150 MI MIN. IN PC TAIL AREA
BOTH OVER NICKEL: 1.27 μ M/50 MI MIN.
 3. PRODUCT SPECIFICATION: PS-45984-001
 4. PACKAGING SPECIFICATION: TRAY PER PK-45984-001
 5. SEE SHEET 5 FOR CIRCUIT IDENTIFICATION.
 6. PARTS ARE RoHS COMPLIANT.
 7. PEG HOLES ARE OPTIONAL. SEE SHEET 3 & 4.
 8. MATES TO MOLEX 45984 SERIES RECEPTACLE.
 9. PARTS CONFORM TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
 10. DATE CODE (3-DIGIT DAY, 1-DIGIT YEAR) TO BE LOCATED AND PRINTED AS SHOWN.

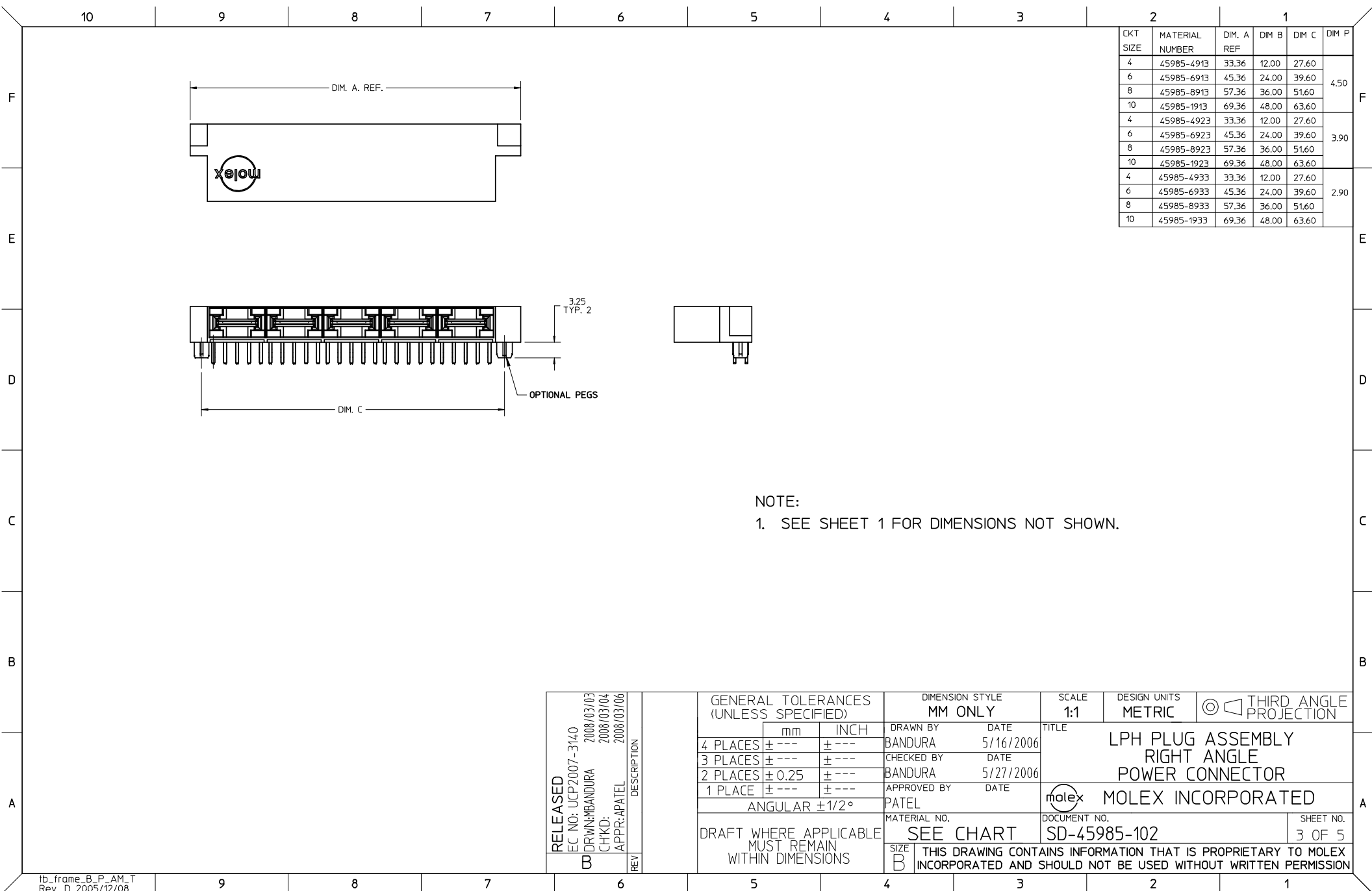
RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: CHKD APPR: APATEL	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY	DATE	TITLE LPH PLUG ASSEMBLY RIGHT ANGLE POWER CONNECTOR			
		4 PLACES ±---	±---	CHECKED BY	DATE				
		3 PLACES ±---	±---	BANDURA	5/27/2006				
		2 PLACES ±0.25	±---	APPROVED BY	DATE	 MOLEX INCORPORATED			
		1 PLACE ±---	±---	PATEL					
		ANGULAR ±1/2°		MATERIAL NO.	DOCUMENT NO.				
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-45985-102			1 OF 5	
REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

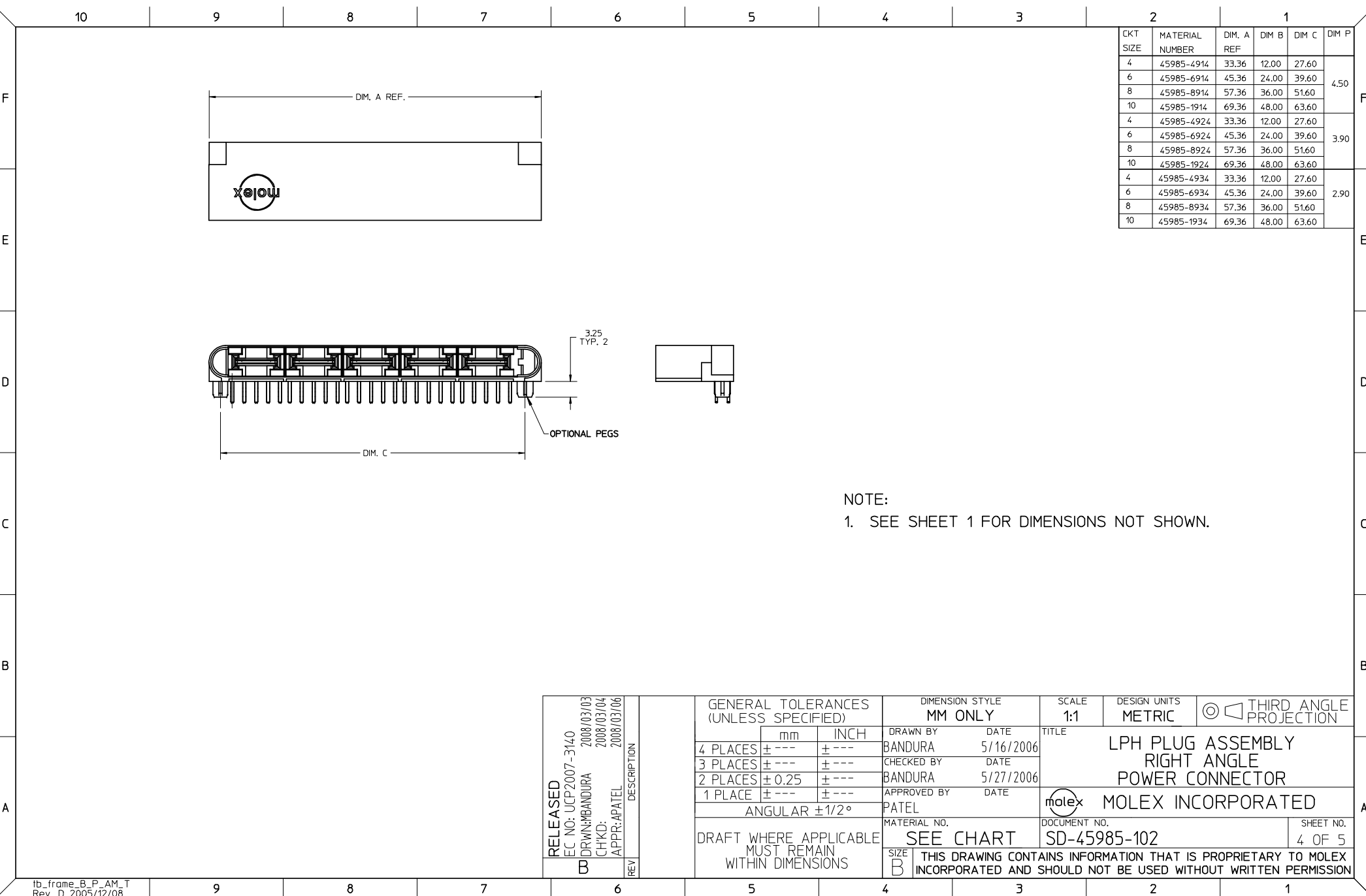


CKT SIZE	MATERIAL NUMBER	DIM. A REF	DIM B	DIM P
4	45985-4912	33.36	12.00	4.50
6	45985-6912	45.36	24.00	
8	45985-8912	57.36	36.00	
10	45985-1912	69.36	48.00	3.90
4	45985-4922	33.36	12.00	
6	45985-6922	45.36	24.00	
8	45985-8922	57.36	36.00	2.90
10	45985-1922	69.36	48.00	
4	45985-4932	33.36	12.00	
6	45985-6932	45.36	24.00	
8	45985-8932	57.36	36.00	
10	45985-1932	69.36	48.00	

NOTE:
1. SEE SHEET 1 FOR DIMENSIONS NOT SHOWN.

RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: BANDURA APPR: APATEL B	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY	DATE	TITLE LPH PLUG ASSEMBLY RIGHT ANGLE POWER CONNECTOR			
		4 PLACES ± ---	± ---	BANDURA	5/16/2006				
		3 PLACES ± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED			
		2 PLACES ± 0.25	± ---	BANDURA	5/27/2006				
		1 PLACE ± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED			
		ANGULAR ±1/2°		PATEL					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
		SEE CHART		SD-45985-102		2 OF 5			
		SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						





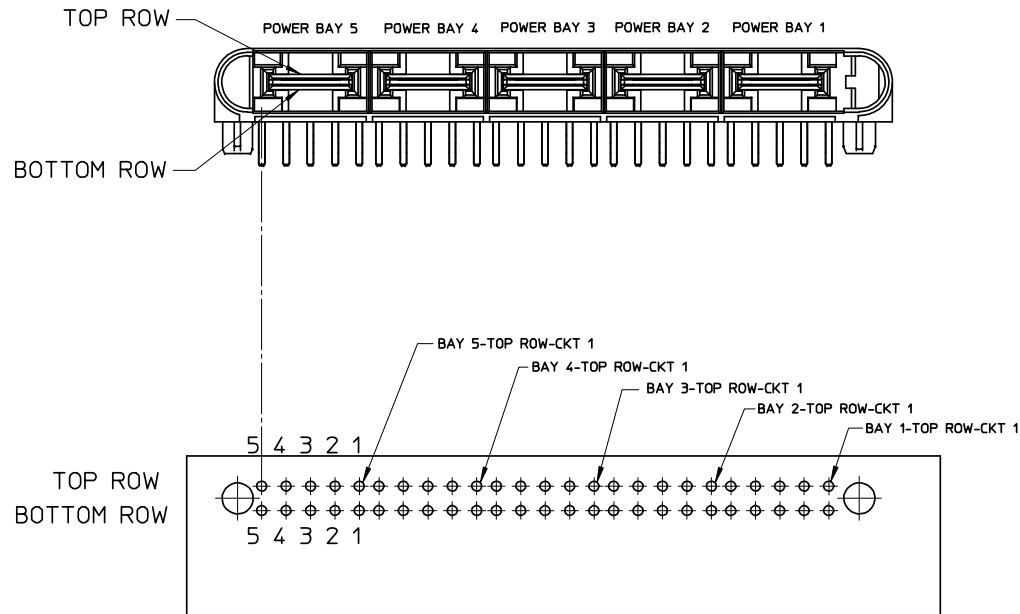
CKT SIZE	MATERIAL NUMBER	DIM. A REF	DIM B	DIM C	DIM P
4	45985-4914	33.36	12.00	27.60	4.50
6	45985-6914	45.36	24.00	39.60	
8	45985-8914	57.36	36.00	51.60	
10	45985-1914	69.36	48.00	63.60	
4	45985-4924	33.36	12.00	27.60	3.90
6	45985-6924	45.36	24.00	39.60	
8	45985-8924	57.36	36.00	51.60	
10	45985-1924	69.36	48.00	63.60	
4	45985-4934	33.36	12.00	27.60	2.90
6	45985-6934	45.36	24.00	39.60	
8	45985-8934	57.36	36.00	51.60	
10	45985-1934	69.36	48.00	63.60	

NOTE:
1. SEE SHEET 1 FOR DIMENSIONS NOT SHOWN.

RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: BANDURA APPR: APATEL REV B	DESCRIPTION 2008/03/03 2008/03/04 2008/03/06	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		mm	INCH	DRAWN BY	DATE	TITLE LPH PLUG ASSEMBLY RIGHT ANGLE POWER CONNECTOR			
		4 PLACES ± ---	± ---	BANDURA	5/16/2006				
		3 PLACES ± ---	± ---	CHECKED BY	DATE	MATERIAL NO. SEE CHART			
		2 PLACES ± 0.25	± ---	BANDURA	5/27/2006				
		1 PLACE ± ---	± ---	APPROVED BY	DATE	DOCUMENT NO. SD-45985-102			
		ANGULAR ±1/2°		PATEL					SHEET NO. 4 OF 5
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

CIRCUIT IDENTIFICATION



PCB LAYOUT: COMPONENT SIDE

RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: BANDURA APPR: APATEL REV: B	DESCRIPTION 2008/03/03 2008/03/04 2008/03/06	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				DRAWN BY BANDURA	DATE 5/16/2006	TITLE LPH PLUG ASSEMBLY RIGHT ANGLE POWER CONNECTOR			
				CHECKED BY BANDURA	DATE 5/27/2006				
				APPROVED BY PATEL	DATE	MOLEX INCORPORATED			
				MATERIAL NO.					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO. SD-45985-102			SHEET NO. 5 OF 5
		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

9 8 7 6 5 4 3 2 1