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Part Number: [0459841914](#)
Status: **Active**
Overview: [extreme_lphpower](#)
Description: EXTreme LPHPower™ Receptacle Header, Right Angle, 10 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
UL	E29179

General

Product Family	PCB Receptacles
Series	45984
Application	Board-to-Board
Comments	10 Power Blades
Overview	extreme_lphpower
Product Name	EXTreme LPHPower™

Physical

Circuits (Loaded)	10
Circuits (maximum)	10
Circuits Detail	10 Power, No Signal
Color - Resin	Black
Durability (mating cycles max)	250
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
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
Plating min: Termination (µin)	150
Plating min: Termination (µm)	3.75
Polarized to Mating Part	Yes

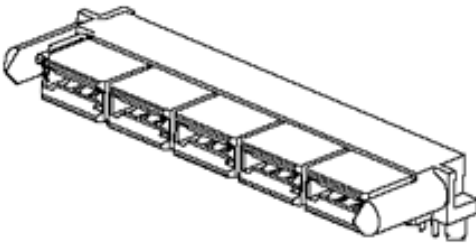


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
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
[45984Series](#)

Mates With
[45985](#) EXTreme LPHPower™ Headers

Polarized to PCB	No
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	20A
Grounding to PCB	No
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

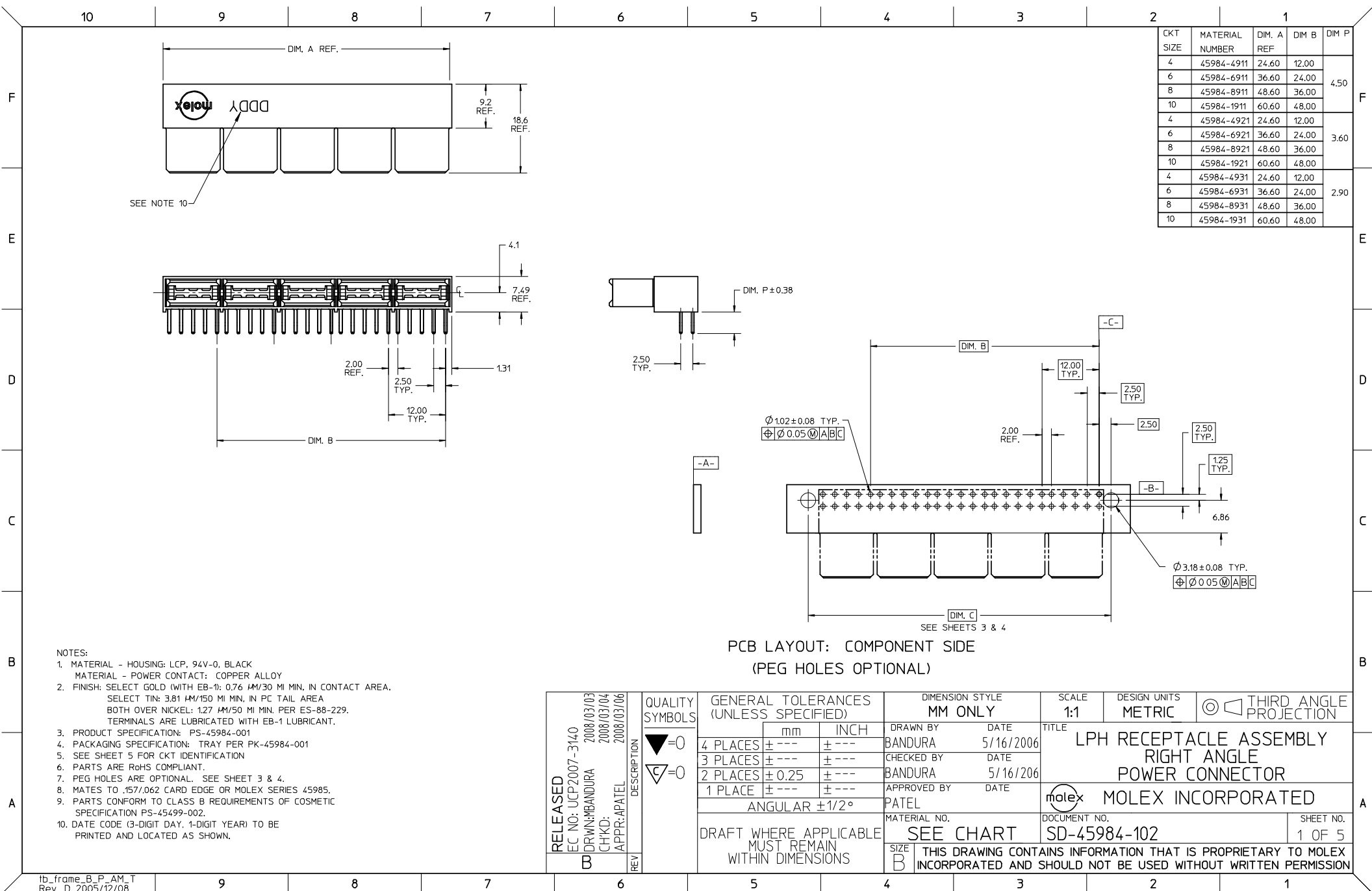
Material Info

Reference - Drawing Numbers

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

This document was generated on 05/21/2010

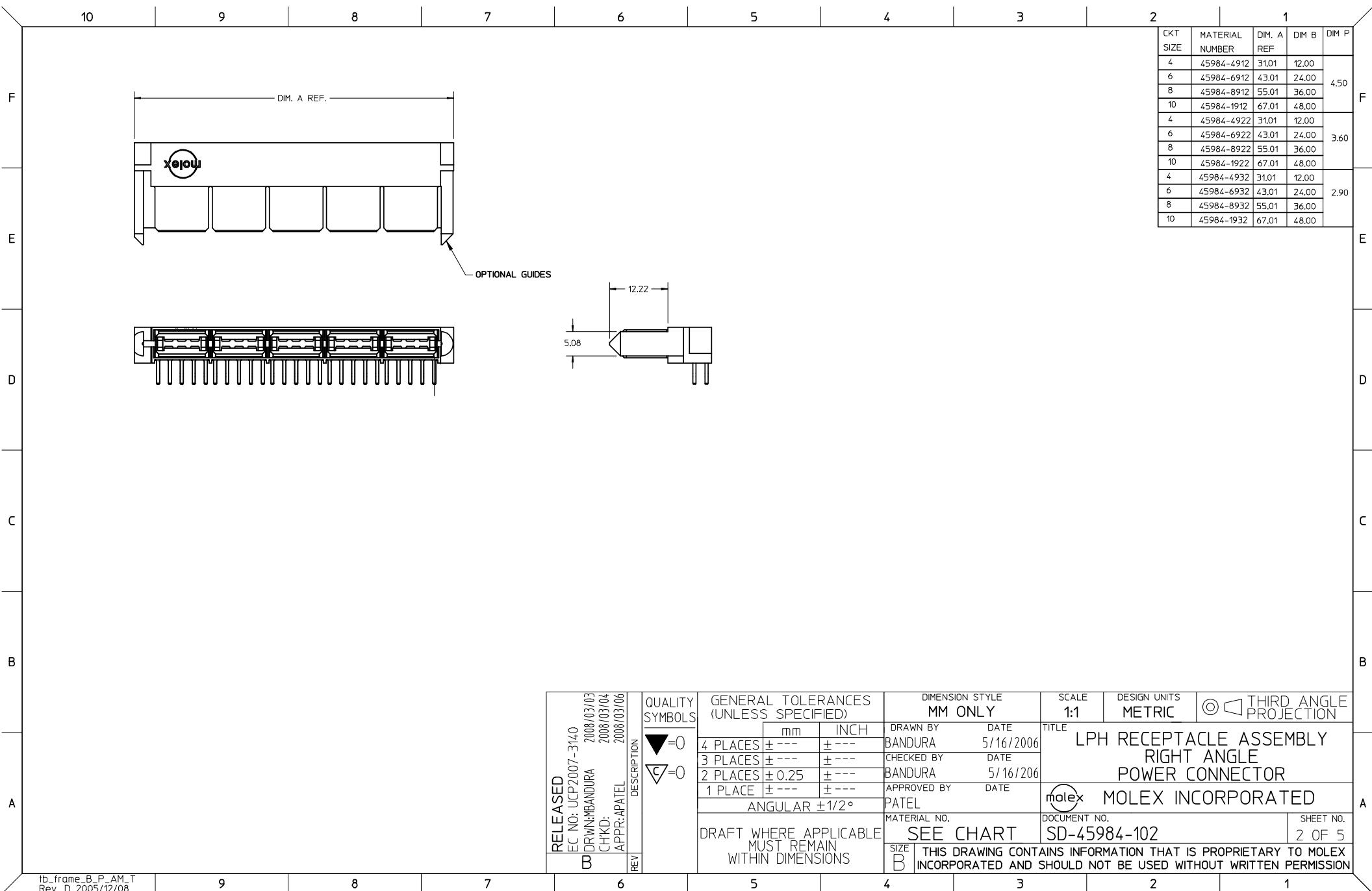
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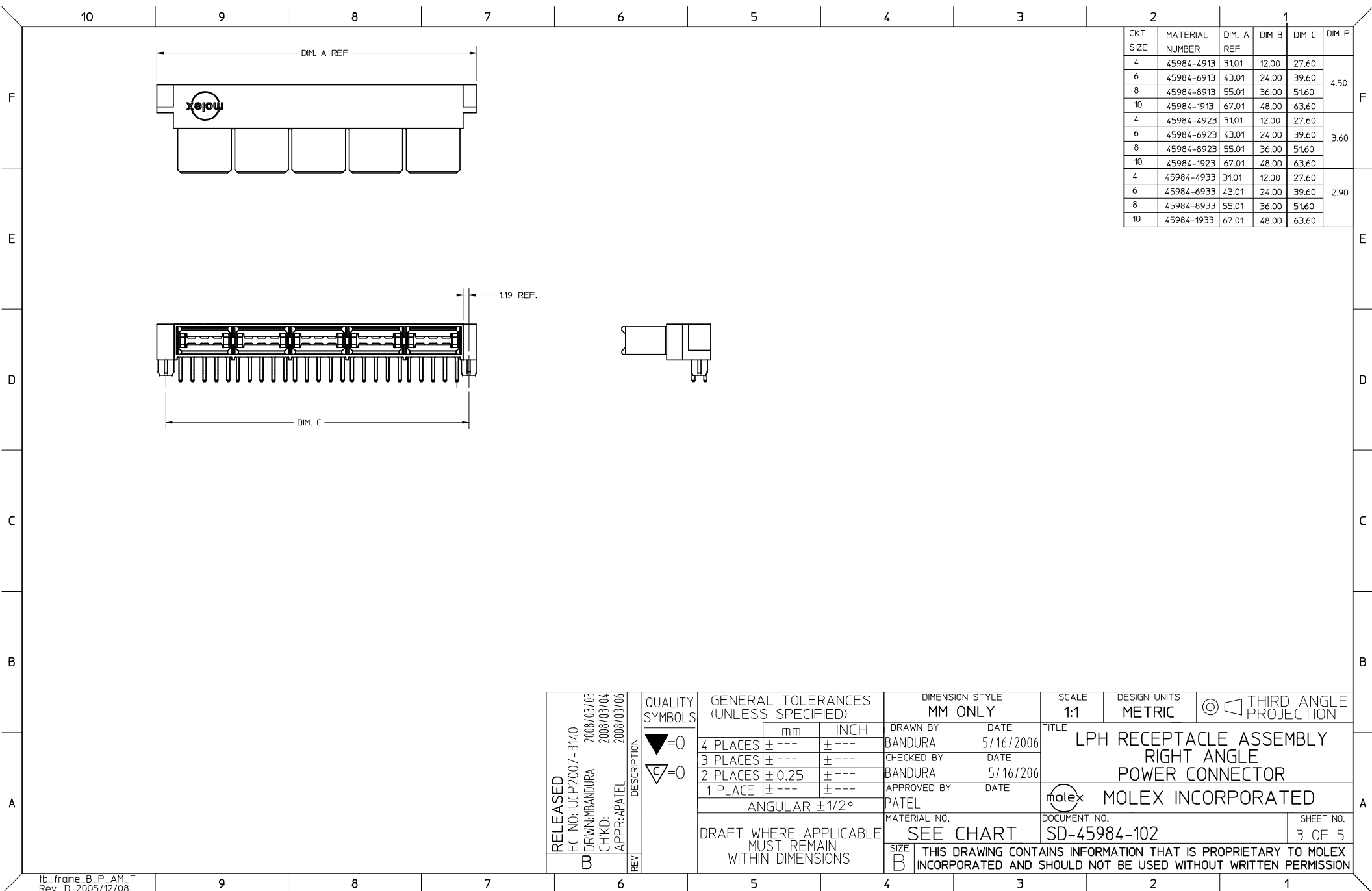
CKT SIZE	MATERIAL NUMBER	DIM. A REF	DIM B	DIM P
4	45984-4911	24.60	12.00	4.50
6	45984-6911	36.60	24.00	
8	45984-8911	48.60	36.00	
10	45984-1911	60.60	48.00	
4	45984-4921	24.60	12.00	3.60
6	45984-6921	36.60	24.00	
8	45984-8921	48.60	36.00	
10	45984-1921	60.60	48.00	
4	45984-4931	24.60	12.00	2.90
6	45984-6931	36.60	24.00	
8	45984-8931	48.60	36.00	
10	45984-1931	60.60	48.00	

- NOTES:
1. MATERIAL - HOUSING: LCP, 94V-0, BLACK
MATERIAL - POWER CONTACT: COPPER ALLOY
 2. FINISH: SELECT GOLD (WITH EB-1): 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, PER ES-88-229.
TERMINALS ARE LUBRICATED WITH EB-1 LUBRICANT.
 3. PRODUCT SPECIFICATION: PS-45984-001
 4. PACKAGING SPECIFICATION: TRAY PER PK-45984-001
 5. SEE SHEET 5 FOR CKT IDENTIFICATION
 6. PARTS ARE ROHS COMPLIANT.
 7. PEG HOLES ARE OPTIONAL. SEE SHEET 3 & 4.
 8. MATES TO .157/.062 CARD EDGE OR MOLEX SERIES 45985.
 9. PARTS CONFORM TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
 10. DATE CODE (3-DIGIT DAY, 1-DIGIT YEAR) TO BE PRINTED AND LOCATED AS SHOWN.

RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: 2008/03/04 APPR: APATEL 2008/03/06	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY	DATE	TITLE LPH RECEPTACLE ASSEMBLY RIGHT ANGLE POWER CONNECTOR				
			4 PLACES	± ---	± ---	BANDURA				5/16/2006	
			3 PLACES	± ---	± ---	CHECKED BY				DATE	
			2 PLACES	± 0.25	± ---	BANDURA				5/16/206	
			1 PLACE	± ---	± ---	APPROVED BY				DATE	
			ANGULAR ±1/2°		PATEL		 MOLEX INCORPORATED				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.					DOCUMENT NO.	
					SEE CHART		SD-45984-102			1 OF 5	
					SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

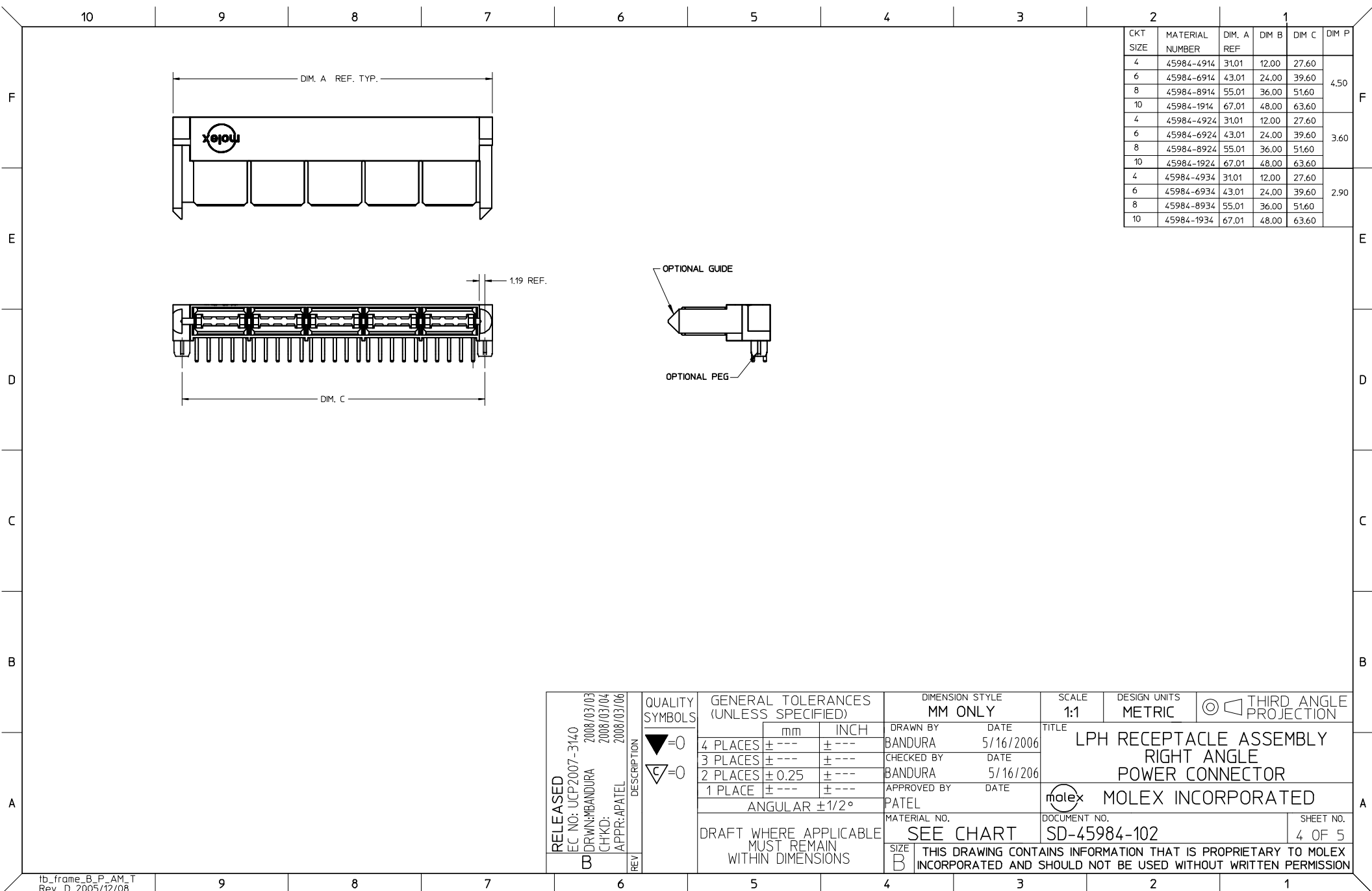


RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: BANDURA APPR: APATEL	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES	± ---	± ---	DRAWN BY BANDURA	DATE 5/16/2006	TITLE LPH RECEPTACLE ASSEMBLY RIGHT ANGLE POWER CONNECTOR MOLEX INCORPORATED	
		3 PLACES	± ---	± ---	CHECKED BY BANDURA	DATE 5/16/2006		
		2 PLACES	± 0.25	± ---	APPROVED BY PATEL	DATE		
		1 PLACE	± ---	± ---	MATERIAL NO. SEE CHART			
		ANGULAR ±1/2°						
		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		



CKT SIZE	MATERIAL NUMBER	DIM. A REF	DIM B	DIM C	DIM P
4	45984-4913	31.01	12.00	27.60	4.50
6	45984-6913	43.01	24.00	39.60	
8	45984-8913	55.01	36.00	51.60	
10	45984-1913	67.01	48.00	63.60	
4	45984-4923	31.01	12.00	27.60	3.60
6	45984-6923	43.01	24.00	39.60	
8	45984-8923	55.01	36.00	51.60	
10	45984-1923	67.01	48.00	63.60	
4	45984-4933	31.01	12.00	27.60	2.90
6	45984-6933	43.01	24.00	39.60	
8	45984-8933	55.01	36.00	51.60	
10	45984-1933	67.01	48.00	63.60	

RELEASED EC NO: UCP2007-3140 DRAWN:MBANDURA CHKD: B APPR:APATEL	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE LPH RECEPTACLE ASSEMBLY RIGHT ANGLE POWER CONNECTOR	MOLEX INCORPORATED	DOCUMENT NO. SD-45984-102	SHEET NO. 3 OF 5		
					DRAWN BY BANDURA		DATE 5/16/2006								
			4 PLACES		CHECKED BY BANDURA		DATE 5/16/2006								
			3 PLACES		APPROVED BY PATEL		DATE								
			2 PLACES		MATERIAL NO.		SEE CHART								
			1 PLACE		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								
ANGULAR ±1/2°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													



RELEASED
EC NO: UCP2007-3140
DRAWN: BANDURA
CHKD: BANDURA
APPR: APATEL

2008/03/03
2008/03/04
2008/03/06

DESCRIPTION
REV

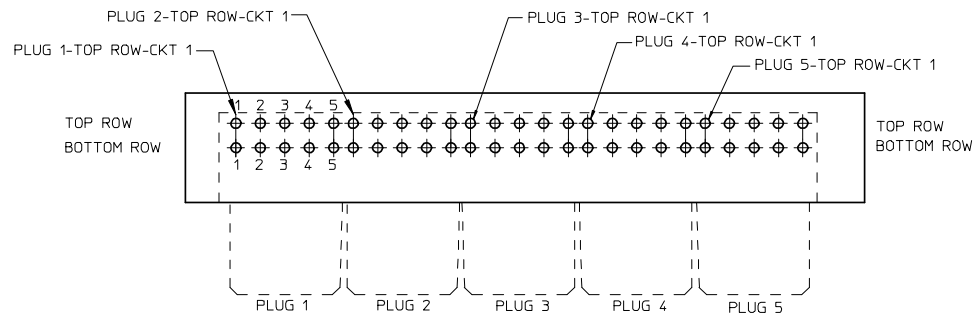
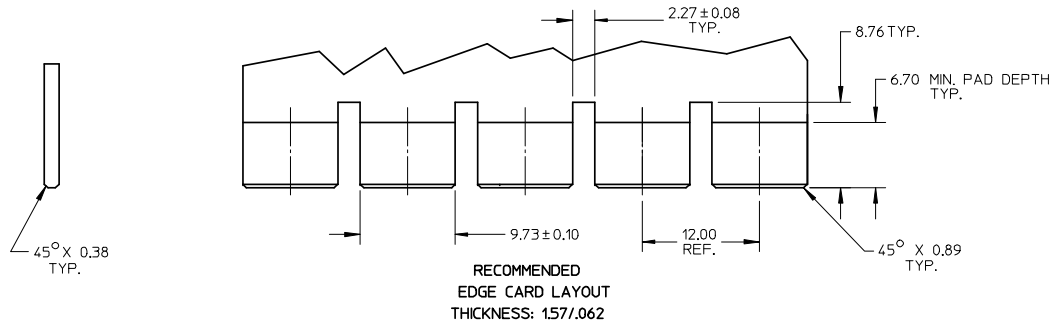
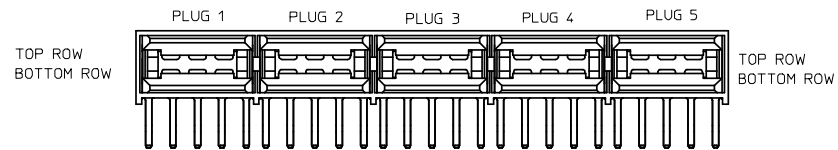
QUALITY SYMBOLS
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)
mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± 0.25 ± ---
1 PLACE ± --- ± ---
ANGULAR ± 1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY
DRAWN BY DATE
BANDURA 5/16/2006
CHECKED BY DATE
BANDURA 5/16/2006
APPROVED BY DATE
PATEL
MATERIAL NO.
SEE CHART
SIZE B

SCALE
1:1
DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION
TITLE
LPH RECEPTACLE ASSEMBLY
RIGHT ANGLE
POWER CONNECTOR
MOLEX INCORPORATED
DOCUMENT NO.
SD-45984-102
SHEET NO.
4 OF 5
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10 9 8 7 6 5 4 3 2 1



PCB LAYOUT: COMPONENT SIDE
SEE SHEET 1 FOR DIMENSIONS

RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: 0 APPR: APATEL REV B	QUALITY SYMBOLS ▽=0 ▽=0	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 RECEPTACLE ASSEMBLY RIGHT ANGLE POWER CONNECTOR		
			4 PLACES	± ---	± ---	BANDURA	5/16/2006			
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			1 PLACE	± ---	± ---	APPROVED BY	DATE			
ANGULAR ±1/2°		PATEL		 MOLEX INCORPORATED						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45984-102		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