

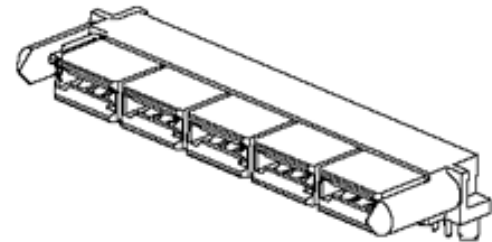
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Part Number:0459844924

Status:Active

Overview:extreme_lphpower

Description:EXTreme LPHPower™ Receptacle Header, Right Angle, 4 Power Contacts, Select Gold (Au) Plating, for 2.36mm (.093") Thick PC Board with Guide and Press-fit Plastic Pegs



Series

image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-45984-001 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	45984
Application	Board-to-Board
Comments	4 Power Blades
Overview	extreme_lphpower
Product Name	EXTreme LPHPower™

Physical

Circuits (Loaded)	4
Circuits (maximum)	4
Circuits Detail	4 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)	0.142 In
PC Tail Length (mm)	3.60 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.36 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

EU RoHS

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

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	30A
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

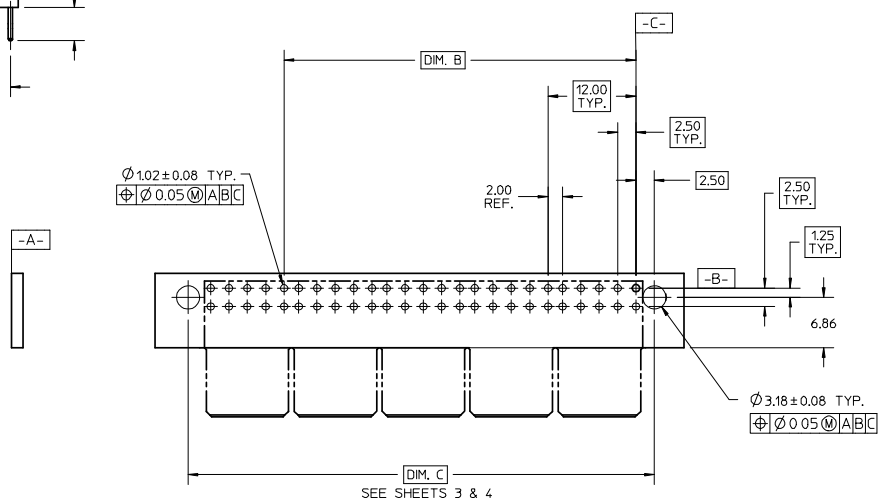
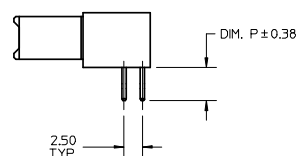
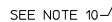
Material Info

Reference - Drawing Numbers

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

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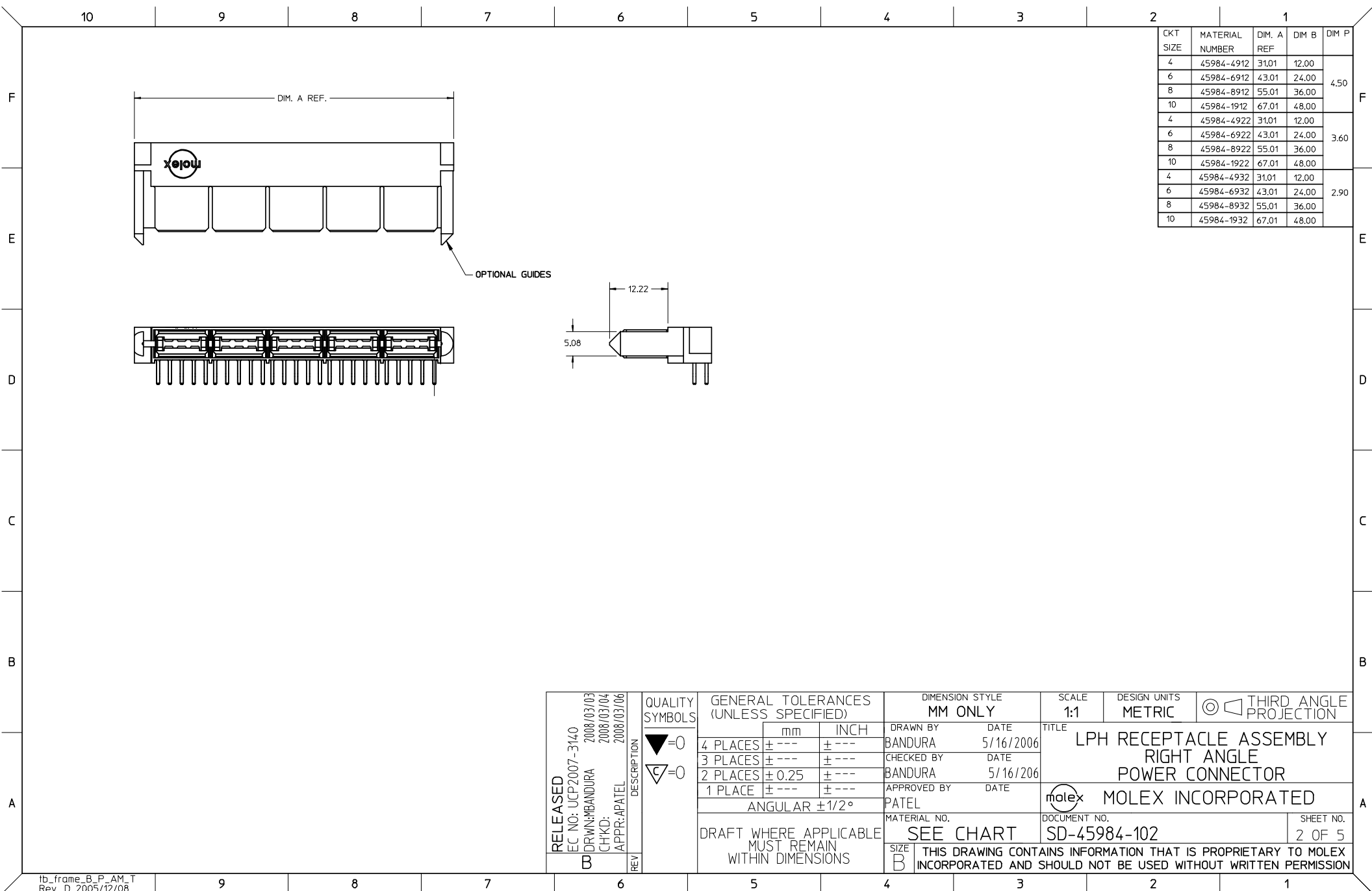
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SEE SHEETS 3 & 4

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 2008/03/03 2008/03/04 CHKD: DRW:M.BANDURA 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 BANDURA	DATE 5/16/2006	TITLE LPH RECEPTACLE ASSEMBLY RIGHT ANGLE POWER CONNECTOR MOLEX INCORPORATED			
			4 PLACES	± ---	± ---	CHECKED BY BANDURA	DATE 5/16/2006				
			3 PLACES	± ---	± ---	APPROVED BY PATEL	DATE				
			2 PLACES	± 0.25	± ---	MATERIAL NO.					DOCUMENT NO.
			1 PLACE	± ---	± ---	PATEL		SD-45984-102	1 OF 5		
			ANGULAR ±1/2°			SEE CHART					
			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			



RELEASED
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DRAWN: BANDURA
CHKD: B
APPR: APATEL

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

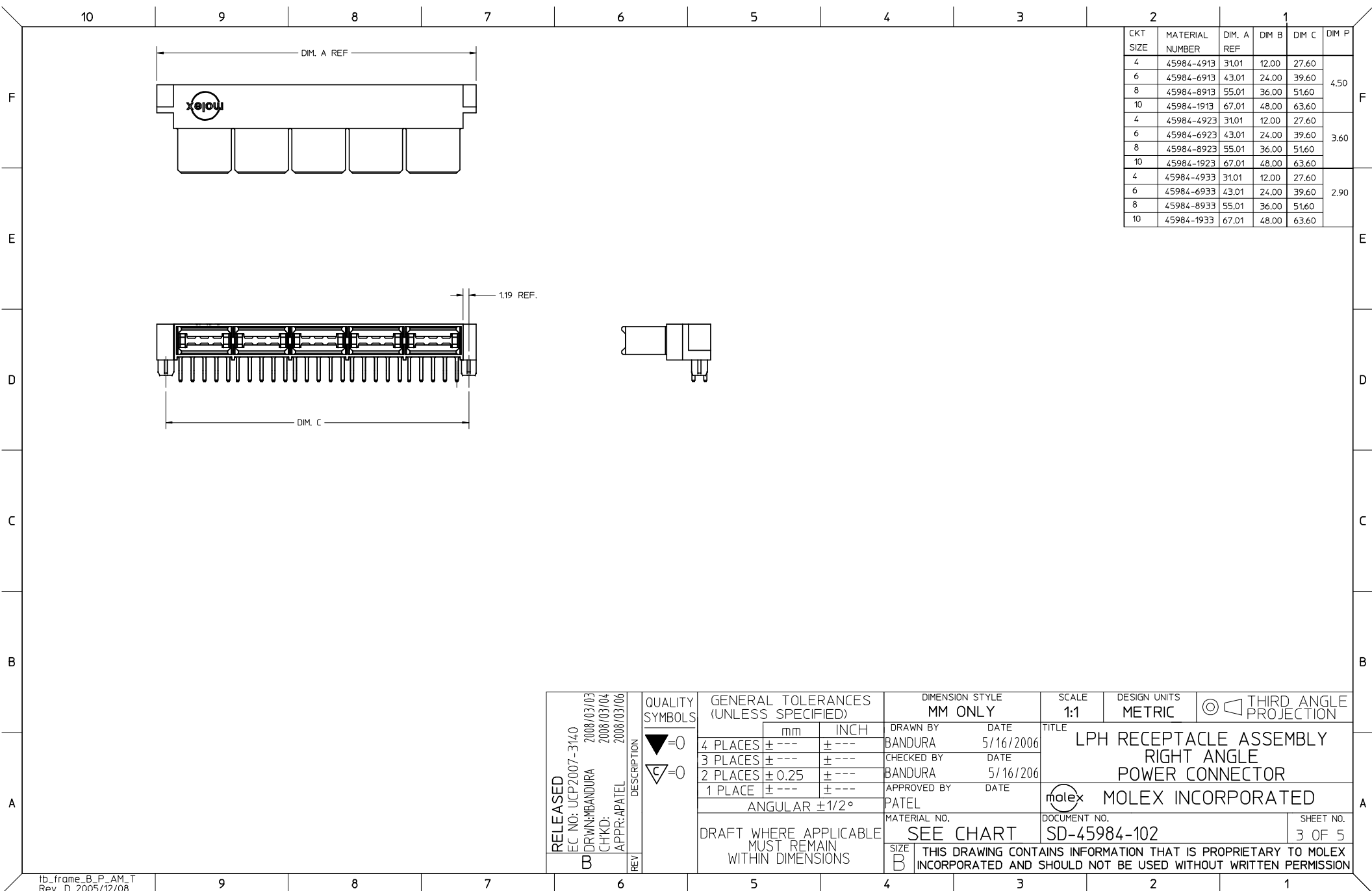
DESCRIPTION
REV

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

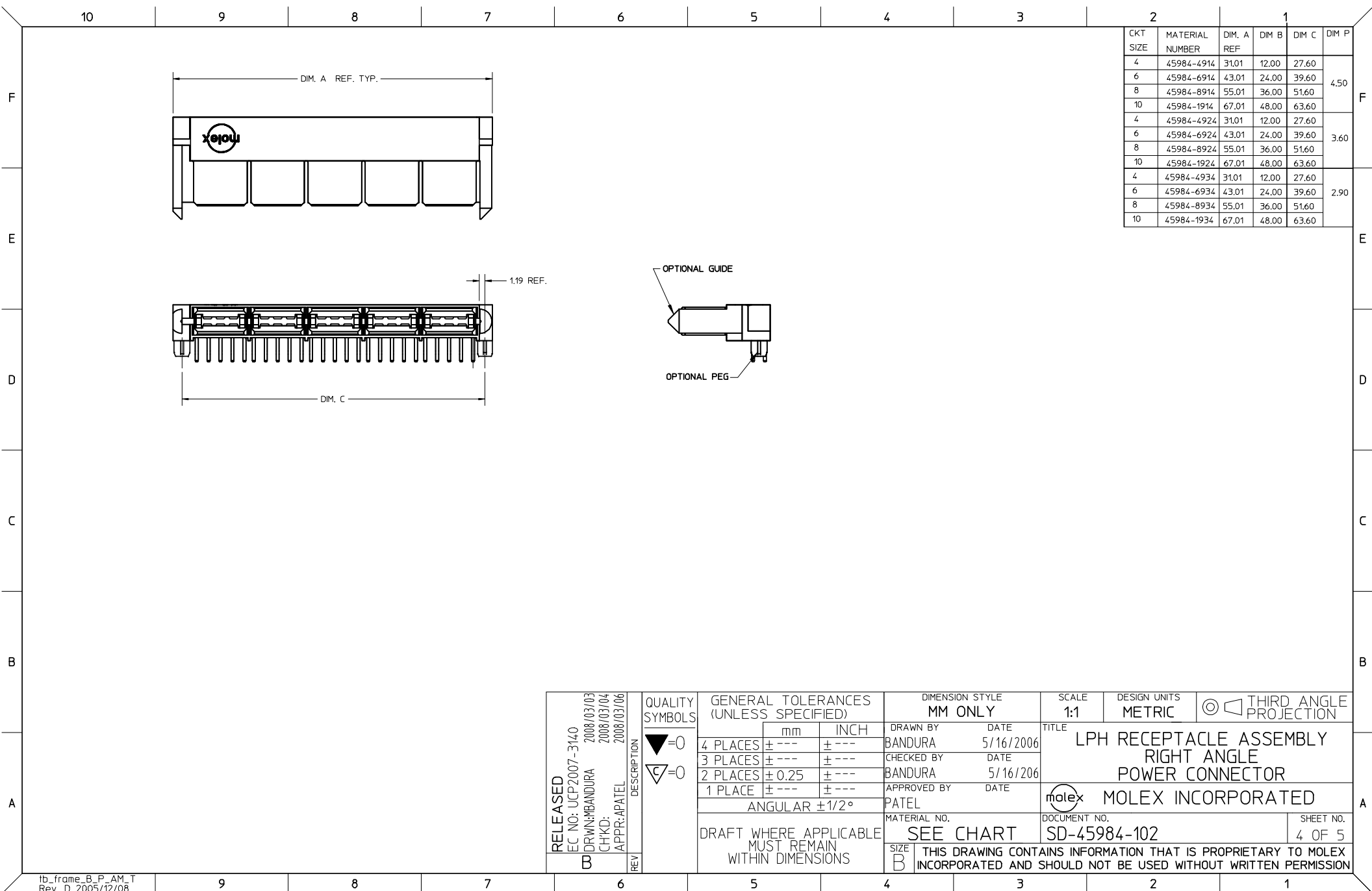
DIMENSION STYLE
MM ONLY
DRAWN BY DATE
BANDURA 5/16/2006
CHECKED BY DATE
BANDURA 5/16/206
APPROVED BY DATE
PATEL
MATERIAL NO.
SEE CHART
SIZE B

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.
2 OF 5
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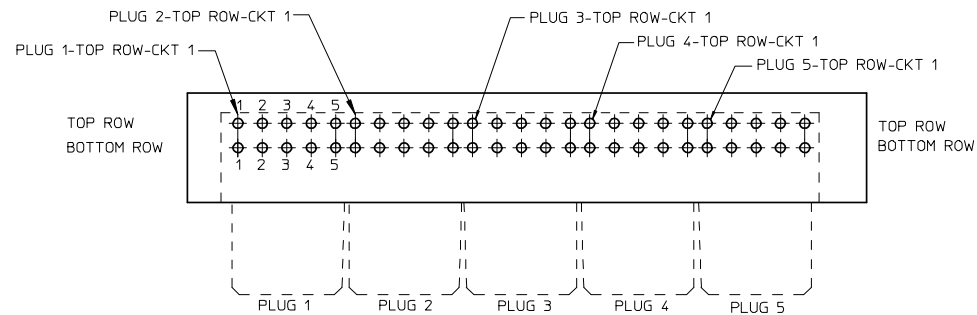
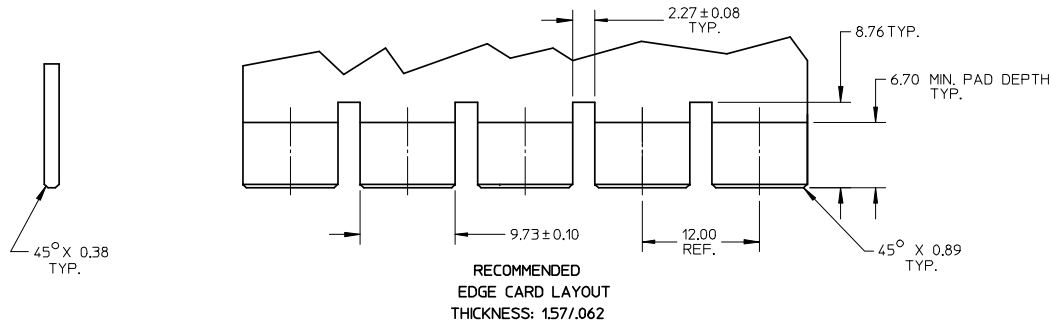
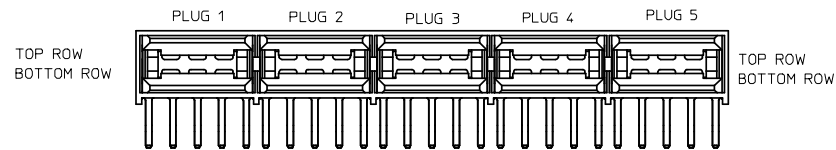


CKT SIZE	MATERIAL NUMBER	DIM. A REF	DIM B	DIM C	DIM P
4	45984-4913	31.01	12.00	27.60	4.50
6	45984-6913	43.01	24.00	39.60	
8	45984-8913	55.01	36.00	51.60	
10	45984-1913	67.01	48.00	63.60	
4	45984-4923	31.01	12.00	27.60	3.60
6	45984-6923	43.01	24.00	39.60	
8	45984-8923	55.01	36.00	51.60	
10	45984-1923	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: BANDURA 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	LPH RECEPTACLE ASSEMBLY RIGHT ANGLE POWER CONNECTOR MOLEX INCORPORATED	SHEET NO. 3 OF 5					
			mm	INCH	DRAWN BY BANDURA	DATE 5/16/2006	TITLE									
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			3 PLACES	± ---	± ---	BANDURA			5/16/2006							
			2 PLACES	± 0.25	± ---	APPROVED BY			DATE							
			1 PLACE	± ---	± ---	PATEL	MOLEX		MOLEX INCORPORATED							
			ANGULAR ±1/2°			MATERIAL NO.		DOCUMENT NO.								
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE CHART		SD-45984-102								
						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



PCB LAYOUT: COMPONENT SIDE
SEE SHEET 1 FOR DIMENSIONS

RELEASED EC NO: UCP2007-3140 DRAWN: BANDURA CHKD: CHKD 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			
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			1 PLACE	± ---	± ---	APPROVED BY	DATE					
			ANGULAR ±1/2°			PATEL		DOCUMENT NO.		SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE CHART		SD-45984-102		5 OF 5					
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9 8 7 6 5 4 3 2 1