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Part Number: [0459856471](#)
Status: **Active**
Overview: [extreme_lphpower](#)
Description: 1.27mm (.050"), 12.00mm (.472") Pitch, EXTreme LPHPower™ Header, Right Angle, 6 Power Contacts, 36 Signal Contacts, Select Gold (Au) Plating, for 3.18mm (.125") Thick PC Board, with Guide Pockets, with 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
Overview	extreme_lphpower
Product Name	EXTreme LPHPower™

Physical

Breakaway	No
Circuits (Loaded)	42
Circuits (maximum)	42
Circuits Detail	6 Power, 36 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	Brass, 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)	0.050 In, 0.472 In
Pitch - Mating Interface (mm)	1.27 mm, 12.00 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	150, 50
Plating min: Termination (µm)	1.25, 3.75
Polarized to Mating Part	Yes

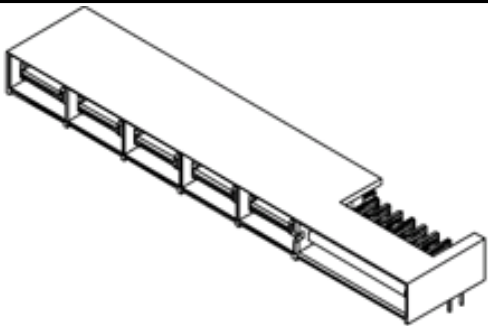


image - Reference only

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

[45985Series](#)

Mates With

[45984](#) EXTreme LPHPower™ PCB Receptacles

Polarized to PCB	Yes
Shrouded	Fully
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	27A
Voltage - Maximum	250V AC (RMS)/DC

Solder Process Data

Duration at Max. Process Temperature (seconds)	20
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-45984-001
Product Specification	PS-45984-001
Sales Drawing	SD-45985-600

This document was generated on 05/25/2010

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NOTES:

- 1. MATERIAL: LCP, 94V-0, BLACK
POWER CONTACT: COPPER ALLOY
SIGNAL CONTACT: PHOSPHOR BRONZE
- 2. FINISH: SELECT GOLD 0.76µM/30 MI MIN, IN CONTACT AREA
SELECT TIN 3.81µM/100 MI MIN, IN PC TAIL AREA
BOTH OVER NICKEL 1.27µM/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 PCB FEATURES AND ARE REQUIRED ONLY WITH THE PEGGED HOUSING OPTIONS.
- 8. MATES WITH MOLEX RECEPTACLE SERIES 45984-6***.

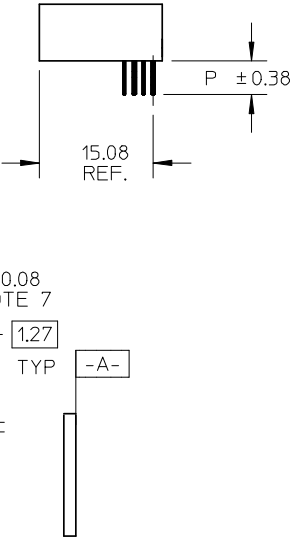
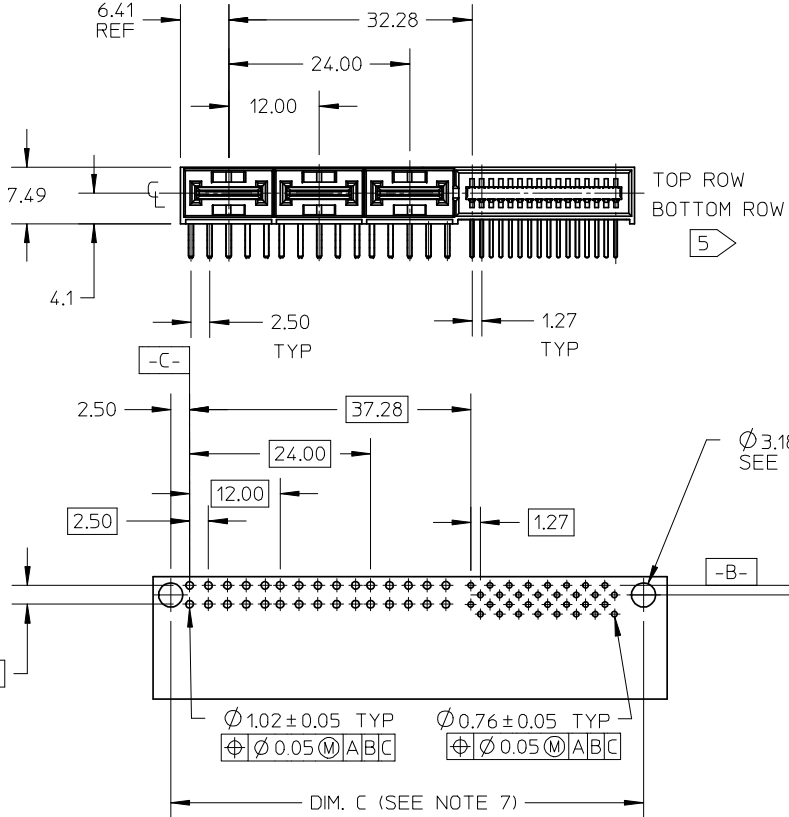
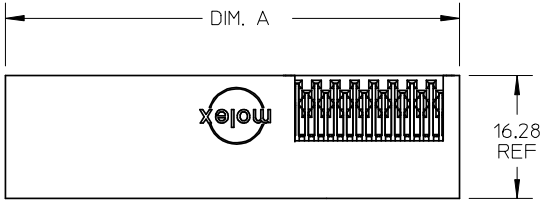
NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM P	PCB THK
12	45985-6111	48.16	4.50	3.18
16	45985-6121	50.70		
20	45985-6131	53.24		
24	45985-6141	55.78		
28	45985-6151	58.32		
32	45985-6161	60.86	3.90	2.36
36	45985-6171	63.40		
40	45985-6181	65.94		
12	45985-6112	48.16	3.90	2.36
16	45985-6122	50.70		
20	45985-6132	53.24		
24	45985-6142	55.78		
28	45985-6152	58.32		
32	45985-6162	60.86	2.90	1.57
36	45985-6172	63.40		
40	45985-6182	65.94		
12	45985-6113	48.16		
16	45985-6123	50.70		
20	45985-6133	53.24		
24	45985-6143	55.78		
28	45985-6153	58.32		
32	45985-6163	60.86		
36	45985-6173	63.40		
40	45985-6183	65.94		

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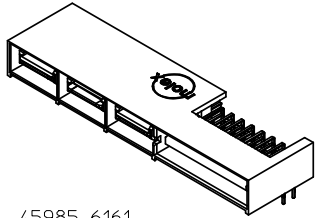
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PCB LAYOUT: COMPONENT SIDE
THKNESS: SEE CHART



45985-6161
(SHOWN FOR REFERENCE)
SEE CHART

REVISED	EC NO:	DRWN:	CHKD:	APPR:	DESCRIPTION	REV
	UCP2007-3140	2008/03/03	2008/03/04	2008/03/06		
		MBANDURA		APATEL		

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/IN	
DRAWN BY	DATE
JSCHAFFER	6-9-05
CHECKED BY	DATE
YMARGULIS	6-14-05
APPROVED BY	DATE
YMARGULIS	6-15-05
MATERIAL NO. SEE CHART	
SIZE A	

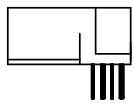
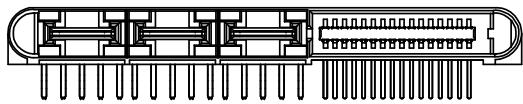
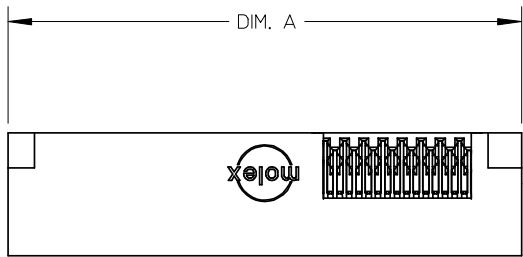
SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
TITLE LPH PLUG ASSEMBLY RT ANGLE 6 CIRCUIT POWER CONNECTOR			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-45985-600			SHEET NO. 1 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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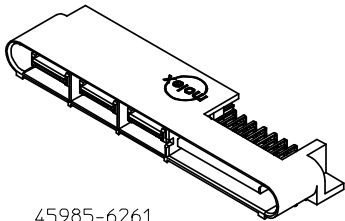
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GUIDE OPTIONS



45985-6261
(SHOWN FOR REFERENCE)
SEE CHART

NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM P	PCB THK
12	45985-6211	55.66	4.50	3.18
16	45985-6221	58.20		
20	45985-6231	60.74		
24	45985-6241	63.28		
28	45985-6251	65.82		
32	45985-6261	68.36		
36	45985-6271	70.90		
40	45985-6281	73.44		
12	45985-6212	55.66	3.90	2.36
16	45985-6222	58.20		
20	45985-6232	60.74		
24	45985-6242	63.28		
28	45985-6252	65.82		
32	45985-6262	68.36		
36	45985-6272	70.90		
40	45985-6282	73.44		
12	45985-6213	55.66	2.90	1.57
16	45985-6223	58.20		
20	45985-6233	60.74		
24	45985-6243	63.28		
28	45985-6253	65.82		
32	45985-6263	68.36		
36	45985-6273	70.90		
40	45985-6283	73.44		

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

REVISED EC NO: UCP2007-3140 DRWN:MBANDURA CHKD: APPR:APATEL	DESCRIPTION 2008/03/03 2008/03/04 2008/03/06	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY JSCHAFFER	DATE 6-9-05	TITLE LPH PLUG ASSEMBLY RT ANGLE 6 CIRCUIT POWER CONNECTOR				
		4 PLACES	± ---	± ---	CHECKED BY YMARGULIS	DATE 6-14-05					
		3 PLACES	± ---	± ---	APPROVED BY YMARGULIS	DATE 6-15-05	MOLEX INCORPORATED				
		2 PLACES	± 0.25	± ---	MATERIAL NO. SEE CHART						
		1 PLACE	± ---	± ---	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									
REV		SIZE A									



MOUNTING PEG OPTIONS

NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM C	DIM P	PCB THK
12	45985-6311	55.66	49.98	4.50	3.18
16	45985-6321	58.20	52.52		
20	45985-6331	60.74	55.06		
24	45985-6341	63.28	57.60		
28	45985-6351	65.82	60.14		
32	45985-6361	68.36	62.68		
36	45985-6371	70.90	65.22		
40	45985-6381	73.44	67.76		
12	45985-6312	55.66	49.98	3.90	2.36
16	45985-6322	58.20	52.52		
20	45985-6332	60.74	55.06		
24	45985-6342	63.28	57.60		
28	45985-6352	65.82	60.14		
32	45985-6362	68.36	62.68		
36	45985-6372	70.90	65.22		
40	45985-6382	73.44	67.76		
12	45985-6313	55.66	49.98	2.90	1.57
16	45985-6323	58.20	52.52		
20	45985-6333	60.74	55.06		
24	45985-6343	63.28	57.60		
28	45985-6353	65.82	60.14		
32	45985-6363	68.36	62.68		
36	45985-6373	70.90	65.22		
40	45985-6383	73.44	67.76		

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



45985-6361
(SHOWN FOR REFERENCE)
SEE CHART

REVISED	EC NO: UCP2007-3140	2008/03/03	DRWN:MBANDURA	2008/03/04	CHKD:	2008/03/06	APPR:APATEL	DESCRIPTION
C								REV

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/IN	
DRAWN BY	DATE
JSCHAFFER	6-9-05
CHECKED BY	DATE
YMARGULIS	6-14-05
APPROVED BY	DATE
YMARGULIS	6-15-05
MATERIAL NO.	SEE CHART
SIZE	A

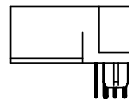
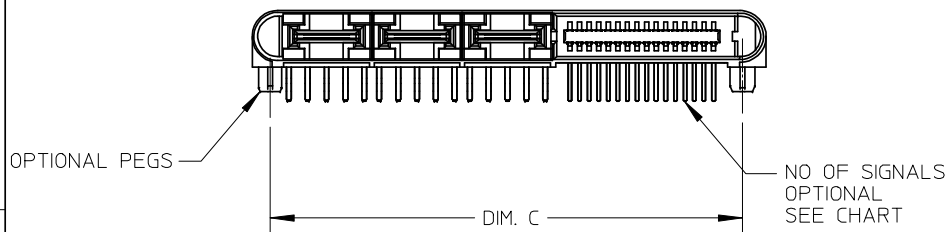
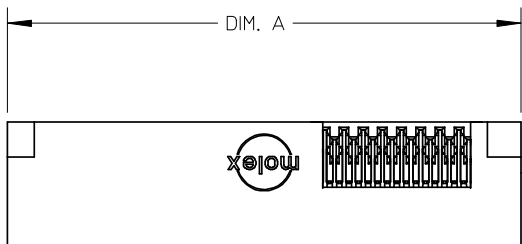
SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
TITLE LPH PLUG ASSEMBLY RT ANGLE 6 CIRCUIT POWER CONNECTOR			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-45985-600			SHEET NO. 3 OF 5
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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GUIDE & MOUNTING PEG OPTIONS

NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM C	DIM P	PCB THK
12	45985-6411	55.66	49.98	4.50	3.18
16	45985-6421	58.20	52.52		
20	45985-6431	60.74	55.06		
24	45985-6441	63.28	57.60		
28	45985-6451	65.82	60.14		
32	45985-6461	68.36	62.68		
36	45985-6471	70.90	65.22		
40	45985-6481	73.44	67.76		
12	45985-6412	55.66	49.98	3.90	2.36
16	45985-6422	58.20	52.52		
20	45985-6432	60.74	55.06		
24	45985-6442	63.28	57.60		
28	45985-6452	65.82	60.14		
32	45985-6462	68.36	62.68		
36	45985-6472	70.90	65.22		
40	45985-6482	73.44	67.76		
12	45985-6413	55.66	49.98	2.90	1.57
16	45985-6423	58.20	52.52		
20	45985-6433	60.74	55.06		
24	45985-6443	63.28	57.60		
28	45985-6453	65.82	60.14		
32	45985-6463	68.36	62.68		
36	45985-6473	70.90	65.22		
40	45985-6483	73.44	67.76		

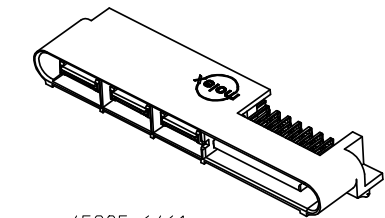
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NOTE:
1. SEE SHEET 1 FOR ALL DIMENSIONS NOT SHOWN.



45985-6461
(SHOWN FOR REFERENCE)
SEE CHART

REVISED EC NO: UCP2007-3140 DRWN:MBANDURA CHKD: APPR:APATEL REV C	DESCRIPTION 2008/03/03 2008/03/04 2008/03/06	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY JSCHAFFER	DATE 6-9-05	TITLE LPH PLUG ASSEMBLY RT ANGLE 6 CIRCUIT POWER CONNECTOR				
		4 PLACES	± ---	± ---	CHECKED BY YMARGULIS	DATE 6-14-05					
		3 PLACES	± ---	± ---	APPROVED BY YMARGULIS	DATE 6-15-05					
		2 PLACES	± 0.25	± ---	 MOLEX INCORPORATED						
		1 PLACE	± ---	± ---							
		ANGULAR ±1/2°			MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45985-600				SHEET NO. 4 OF 5
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
					SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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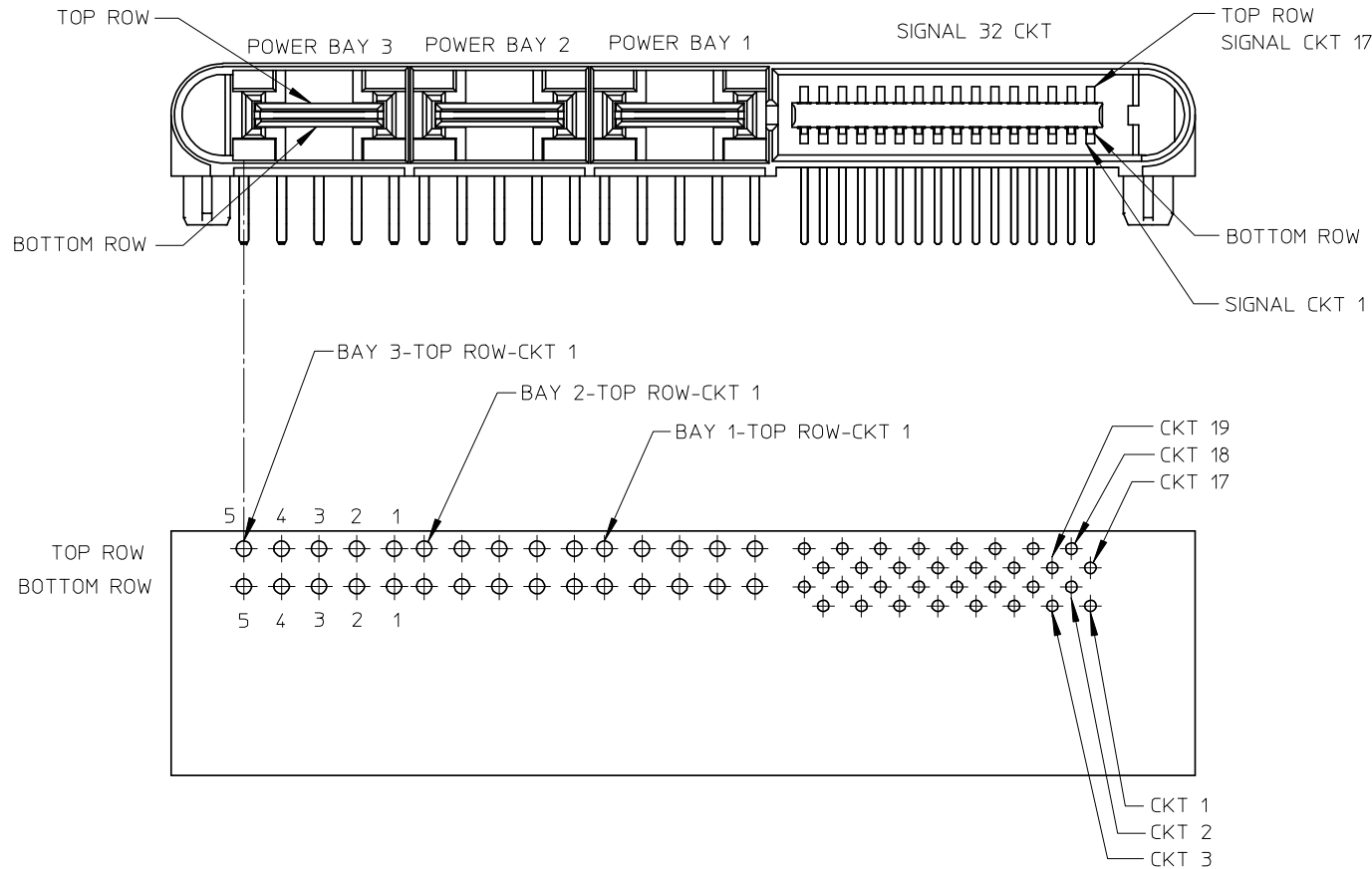
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CIRCUIT IDENTIFICATION



PCB LAYOUT: COMPONENT SIDE

REVISED EC NO: UCP2007-3140 DRWN:MBANDURA CHKD: APPR:APATEL REV	DESCRIPTION 2008/03/03 2008/03/04 2008/03/06	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
			mm	INCH	DRAWN BY JSCHAFFER	DATE 6-9-05	TITLE LPH PLUG ASSEMBLY RT ANGLE 6 CIRCUIT POWER CONNECTOR						
		4 PLACES	± ---	± ---	CHECKED BY YMARGUL IS	DATE 6-14-05							
		3 PLACES	± ---	± ---	APPROVED BY YMARGUL IS		DATE 6-15-05	MOLEX INCORPORATED					
		2 PLACES	± 0.25	± ---									
		1 PLACE	± ---	± ---	MATERIAL NO. SEE CHARTS					DOCUMENT NO. SD-45985-600		SHEET NO. 5 OF 5	
		ANGULAR ±1/2°											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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