

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0459851261

Status:

Active

Overview:

extreme_lphpower

Description:

1.27mm (.050"), 12.00mm (.472") Pitch, EXTreme LPHPower™ Header, Right Angle, 10 Power Contacts, 32 Signal Contacts, Select Gold (Au) Plating, for 3.18mm (.125") Thick PC Board, with Guide Pockets

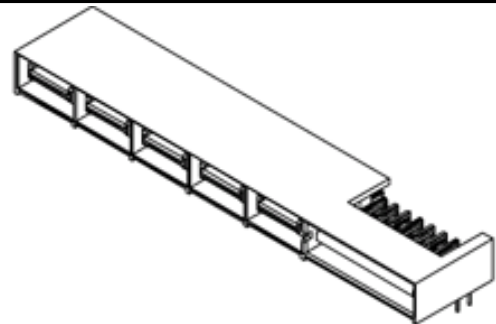


image - Reference only

Series

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-45984-001 \(PDF\)](#)
- [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	10 Power, 32 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	No
PCB Retention	None
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

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	20A
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

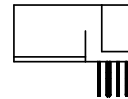
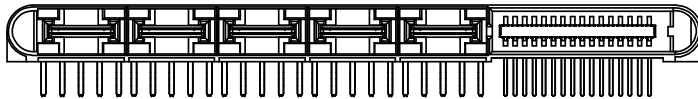
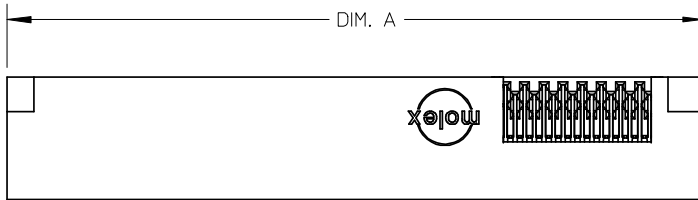
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-45984-001
Product Specification	PS-45984-001
Sales Drawing	SD-45985-100

This document was generated on 05/25/2010

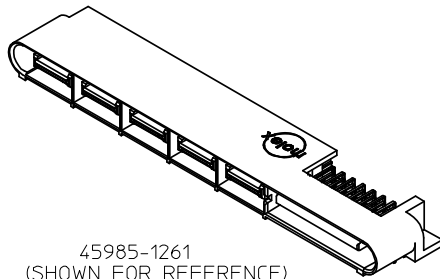
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GUIDE OPTIONS

NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM P	PCB THK
12	45985-1211	79.66	4.50	3.18
16	45985-1221	82.20		
20	45985-1231	84.74		
24	45985-1241	87.28		
28	45985-1251	89.82		
32	45985-1261	92.36		
36	45985-1271	94.90		
40	45985-1281	97.44		
12	45985-1212	79.66	3.90	2.36
16	45985-1222	82.20		
20	45985-1232	84.74		
24	45985-1242	87.28		
28	45985-1252	89.82		
32	45985-1262	92.36		
36	45985-1272	94.90		
40	45985-1282	97.44		
12	45985-1213	79.66	2.90	1.57
16	45985-1223	82.20		
20	45985-1233	84.74		
24	45985-1243	87.28		
28	45985-1253	89.82		
32	45985-1263	92.36		
36	45985-1273	94.90		
40	45985-1283	97.44		

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



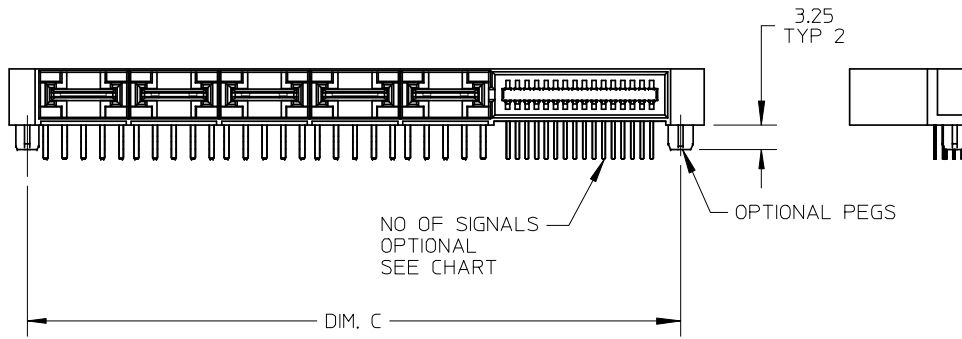
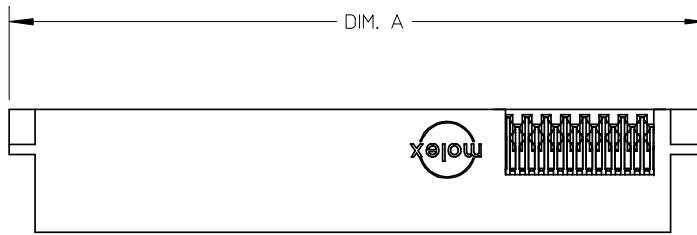
45985-1261
(SHOWN FOR REFERENCE)
SEE CHART

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

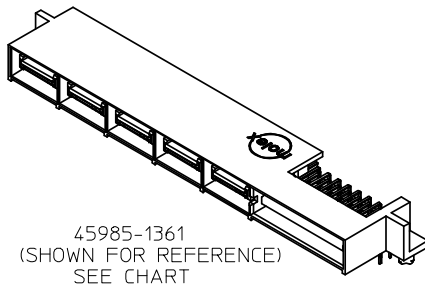
GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
SCHAFER	2005/06/20
CHECKED BY	DATE
SAMIEC	2005/06/21
APPROVED BY	DATE
MARGULIS	2005/06/22
MATERIAL NO.	
SEE CHART	
SIZE	
A	

SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE		
LPH PLUG ASSEMBLY RT ANGLE 10 CIRCUIT POWER CONNECTOR		
	MOLEX INCORPORATED	
DOCUMENT NO. SD-45985-100		SHEET NO. 2 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



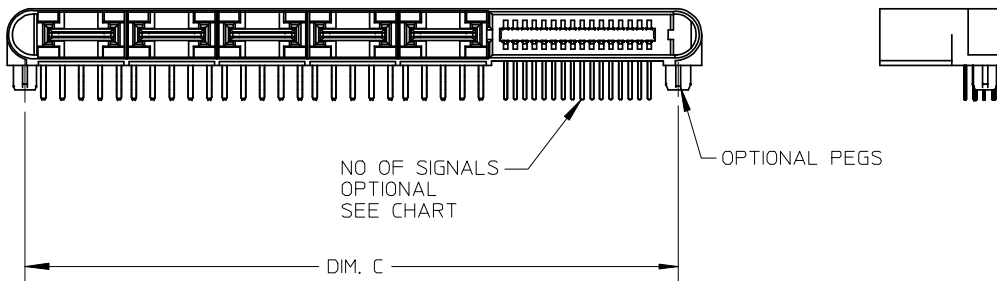
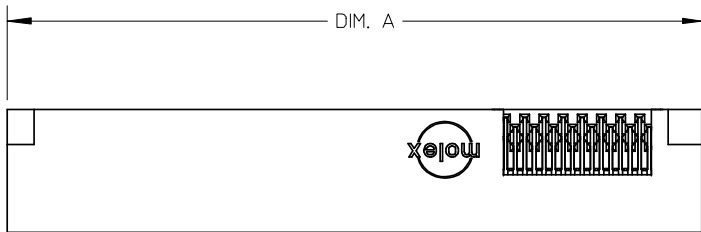
MOUNTING PEG OPTIONS



NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM C	DIM P	PCB THK
12	45985-1311	79.66	73.98	4.50	3.18
16	45985-1321	82.20	76.52		
20	45985-1331	84.74	79.06		
24	45985-1341	87.28	81.60		
28	45985-1351	89.82	84.14		
32	45985-1361	92.36	86.68		
36	45985-1371	94.90	89.22	3.90	2.36
40	45985-1381	97.44	91.76		
12	45985-1312	79.66	73.98		
16	45985-1322	82.20	76.52		
20	45985-1332	84.74	79.06		
24	45985-1342	87.28	81.60		
28	45985-1352	89.82	84.14		
32	45985-1362	92.36	86.68	2.90	1.57
36	45985-1372	94.90	89.22		
40	45985-1382	97.44	91.76		
12	45985-1313	79.66	73.98		
16	45985-1323	82.20	76.52		
20	45985-1333	84.74	79.06		
24	45985-1343	87.28	81.60		
28	45985-1353	89.82	84.14		
32	45985-1363	92.36	86.68		
36	45985-1373	94.90	89.22		
40	45985-1383	97.44	91.76		

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

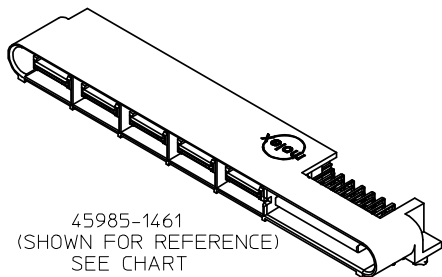
REVISED EC NO: UCP2007-3140 DRWN:MBANDURA CHKD: APPR:APATEL 2008/03/03 2008/03/04 2008/03/06	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY SCHAFFER	DATE 2005/06/20	TITLE LPH PLUG ASSEMBLY RT ANGLE 10 CIRCUIT POWER CONNECTOR				
		4 PLACES	± ---	± ---	CHECKED BY SAMIEC	DATE 2005/06/21					
		3 PLACES	± ---	± ---	APPROVED BY MARGULIS	DATE 2005/06/22					
		2 PLACES	± 0.25	± ---			MOLEX INCORPORATED				
		1 PLACE	± ---	± ---							
		ANGULAR ±1/2°			MATERIAL NO. SEE CHART		DOCUMENT NO. SD-45985-100		SHEET NO. 3 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					



GUIDE & MOUNTING PEG OPTIONS

NO OF SIGNAL	MATERIAL NUMBER	DIM A REF	DIM C	DIM P	PCB THK
12	45985-1411	79.66	73.98	4.50	3.18
16	45985-1421	82.20	76.52		
20	45985-1431	84.74	79.06		
24	45985-1441	87.28	81.60		
28	45985-1451	89.82	84.14		
32	45985-1461	92.36	86.68		
36	45985-1471	94.90	89.22		
40	45985-1481	97.44	91.76		
12	45985-1412	79.66	73.98	3.90	2.36
16	45985-1422	82.20	76.52		
20	45985-1432	84.74	79.06		
24	45985-1442	87.28	81.60		
28	45985-1452	89.82	84.14		
32	45985-1462	92.36	86.68		
36	45985-1472	94.90	89.22		
40	45985-1482	97.44	91.76		
12	45985-1413	79.66	73.98	2.90	1.57
16	45985-1423	82.20	76.52		
20	45985-1433	84.74	79.06		
24	45985-1443	87.28	81.60		
28	45985-1453	89.82	84.14		
32	45985-1463	92.36	86.68		
36	45985-1473	94.90	89.22		
40	45985-1483	97.44	91.76		

NOTE:
1. SEE SHEET 1 FOR ALL OTHER DIMENSIONS.



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 ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY SCHAFER		DATE 2005/06/20	TITLE LPH PLUG ASSEMBLY RT ANGLE 10 CIRCUIT POWER CONNECTOR				
		4 PLACES	± ---	± ---	CHECKED BY SAMIEC		DATE 2005/06/21					
		3 PLACES	± ---	± ---	APPROVED BY MARGULIS		DATE 2005/06/22					
		2 PLACES	± 0.25	± ---					 MOLEX INCORPORATED			
		1 PLACE	± ---	± ---								
		ANGULAR ±1/2°										
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
					SEE CHART		SD-45985-100		4 OF 5			
					SIZE A	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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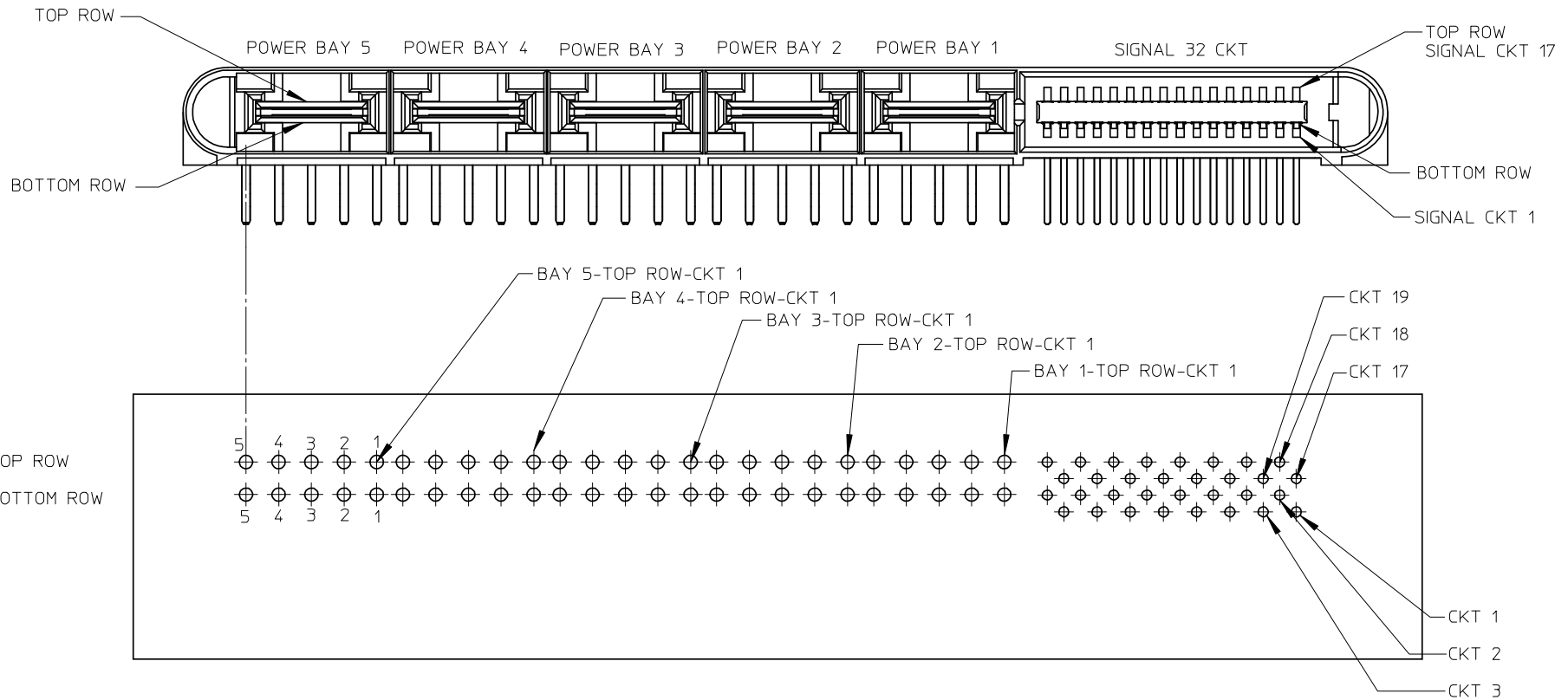
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PCB LAYOUT: COMPONENT SIDE

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

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR $\pm 1/2^\circ$ DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONSDIMENSION STYLE
MM ONLY

DRAWN BY	DATE
SCHAFFER	2005/06/20
CHECKED BY	DATE
SAMIEC	2005/06/21
APPROVED BY	DATE
MARGULIS	2005/06/22

MATERIAL NO.

SEE CHART

SIZE
ASCALE
1:1DESIGN UNITS
METRICTHIRD ANGLE
PROJECTIONTITLE
LPH PLUG ASSEMBLY
RT ANGLE 10 CIRCUIT
POWER CONNECTOR

MOLEX INCORPORATED

DOCUMENT NO.
SD-45985-100SHEET NO.
5 OF 5

5

4

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

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

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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.

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

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