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Part Number:

0459848113

Status:

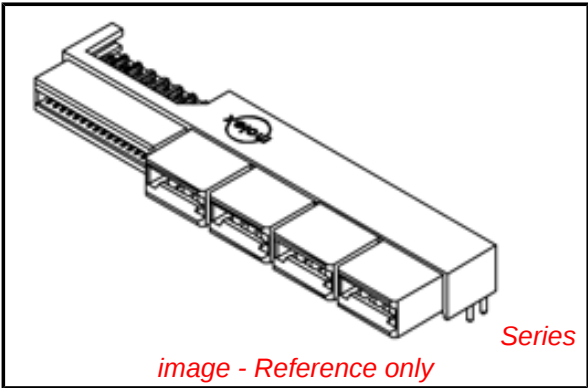
Active

Overview:

extreme_lphpower

Description:

1.27mm (.050"), 12.00mm (.472") Pitch, EXTreme LPHPower™ Receptacle Header, Right Angle, 8 Power Contacts, 12 Signal Contacts, Select Gold (Au) Plating, for 1.57mm (.062") Thick PC Board



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
Overview	extreme_lphpower
Product Name	EXTreme LPHPower™
Physical	
Circuits (Loaded)	20
Circuits (maximum)	20
Circuits Detail	8 Power, 12 Signal
Color - Resin	Black
Durability (mating cycles max)	250
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	Yes
Lock to Mating Part	No
Material - Metal	High Performance Alloy (HPA), Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.114 In
PC Tail Length (mm)	2.90 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 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, 75
Plating min: Termination (µm)	1.875, 3.75
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	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

45984Series

Mates With

45985 EXTreme LPHPower™ Headers, 1.57mm (.062") Card Edge

Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole
Electrical	
Current - Maximum per Contact	23A
Grounding to PCB	No
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-45984-800

This document was generated on 05/21/2010

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NOTES:

1. MATERIAL HOUSING: LCP, 94V-0, COLOR-BLACK.
CONTACT: COPPER ALLOY.
2. FINISH: SELECT GOLD - .762 μ M/30 MI MIN. CONTACT AREA.
SELECT TIN - 3.81 μ M/150 MI MIN. TAIL AREA.
BOTH OVER NICKEL - 1.27 μ M/50 MI MIN.
3. POWER TERMINALS LUBRICATED IN CONTACT AREA.
4. PRODUCT SPECIFICATION: PS-45984-001.
5. PACKAGING: TRAY PER PK-45984-001.
6. SEE SHEET 5 FOR CKT IDENTIFICATION.
7. PARTS ARE RoHS COMPLIANT.
8. PEG HOLES ARE OPTIONAL SEE SHEET 3 AND 4.
9. MATES TO 1577.062 CARD EDGE OR MOLEX P/N 45985-8***.

NO OF SIGNAL	MATERIAL NUMBER	DIM A	DIM P	PCB THK
12	45984-8111	59.5	4.50	3.18
16	45984-8121	62.0		
20	45984-8131	64.6		
24	45984-8141	67.1		
28	45984-8151	69.6		
32	45984-8161	72.2	3.60	2.36
36	45984-8171	74.7		
40	45984-8181	77.3		
12	45984-8112	59.5		
16	45984-8122	62.0		
20	45984-8132	64.6		
24	45984-8142	67.1		
28	45984-8152	69.6		
32	45984-8162	72.2	2.90	1.57
36	45984-8172	74.7		
40	45984-8182	77.3		
12	45984-8113	59.5		
16	45984-8123	62.0		
20	45984-8133	64.6		
24	45984-8143	67.1		
28	45984-8153	69.6		
32	45984-8163	72.2		
36	45984-8173	74.7		
40	45984-8183	77.3		

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	$\pm$ ---	$\pm$ ---
3 PLACES	$\pm$ ---	$\pm$ ---
2 PLACES	$\pm$ 0.25	$\pm$ ---
1 PLACE	$\pm$ ---	$\pm$ ---

ANGULAR $\pm$ 1/2°
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM ONLY

DRAWN BY	DATE
SAMIEC	2005/05/13
CHECKED BY	DATE
SAMIEC	2005/05/13
APPROVED BY	DATE
MARGULIS	2005/05/13
MATERIAL NO.	SEE CHART

SIZE
A

SCALE
1:1

DESIGN UNITS
METRIC

THIRD ANGLE
PROJECTION

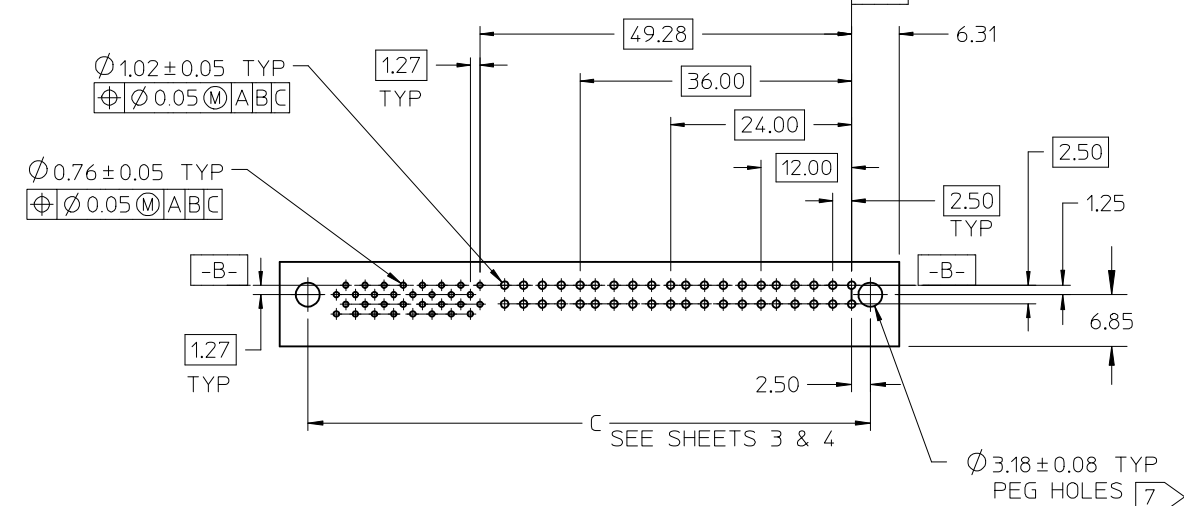
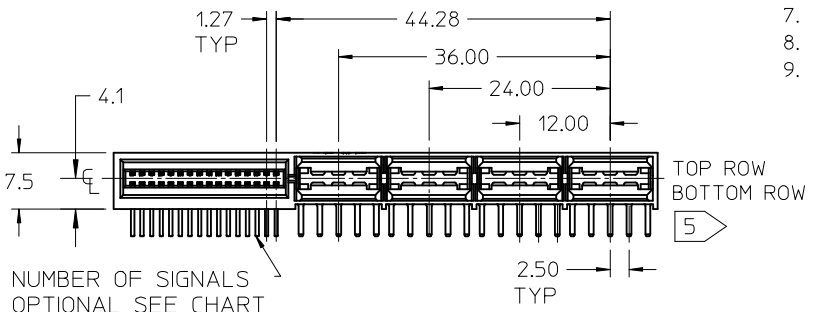
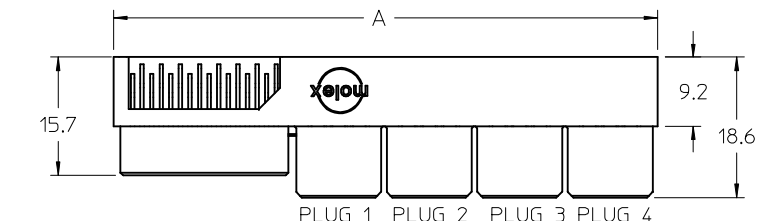
TITLE
LPH RECEPTACLE ASSEMBLY
RT ANGLE 8 CIRCUIT
POWER CONNECTOR

MOLEX INCORPORATED

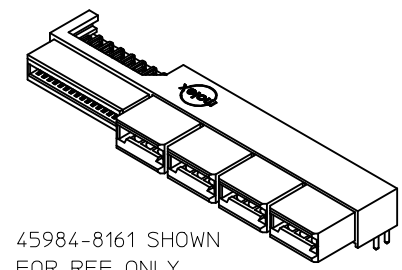
DOCUMENT NO.
SD-45984-800

SHEET NO.
1 OF 5

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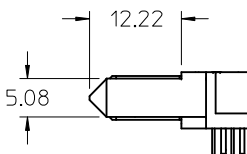


PCB LAYOUT: COMPONENT SIDE
PEG HOLES OPTIONAL



45984-8161 SHOWN
FOR REF ONLY
SEE CHART

REVISED	DESCRIPTION	REV
EC NO: UCP2009-0971		
DRWN:MBANDURA		
CHKD:		
APPR:APATEL		



GUIDE POST OPTIONS

SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION 
TITLE LPH RECEPTACLE ASSEMBLY RT ANGLE 8 CIRCUIT POWER CONNECTOR		
MOLEX MOLEX INCORPORATED		
DOCUMENT NO. SD-45984-800		SHEET NO. 2 OF 5
THIS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		



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		

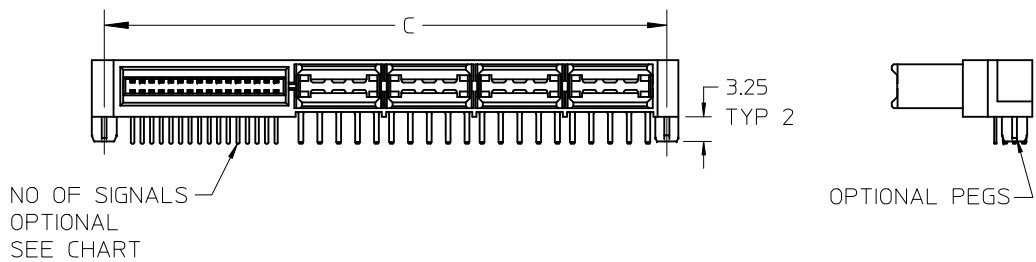
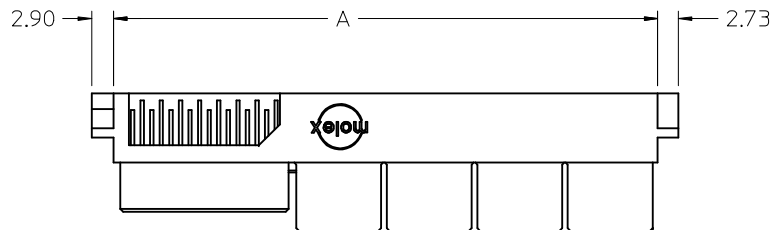
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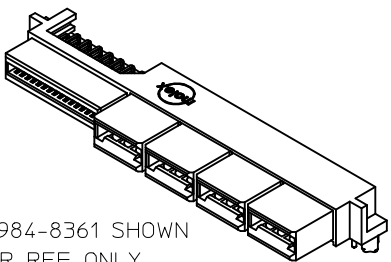
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MOUNTING PEG OPTIONS



45984-8361 SHOWN
FOR REF ONLY
SEE CHART

REVISED	EC NO: UCP2009-0971	DRWN:MBANDURA	CHKD:	APPR:APATEL	DESCRIPTION
		2008/11/13	2008/11/14	2008/11/17	
					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 ONLY	
DRAWN BY	DATE
SAMIEC	2005/05/13
CHECKED BY	DATE
SAMIEC	2005/05/13
APPROVED BY	DATE
MARGULIS	2005/05/13
MATERIAL NO. SEE CHART	
SIZE	
A	

SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE LPH RECEPTACLE ASSEMBLY RT ANGLE 8 CIRCUIT POWER CONNECTOR		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-45984-800		SHEET NO. 3 OF 5
AINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

NO OF SIGNAL	MATERIAL NUMBER	DIM A	DIM C	DIM P	PCB THK
12	45984-8311	59.5	61.90	4.50	3.18
16	45984-8321	62.0	64.44		
20	45984-8331	64.6	66.98		
24	45984-8341	67.1	69.52		
28	45984-8351	69.6	72.06		
32	45984-8361	72.2	74.60		
36	45984-8371	74.7	77.14		
40	45984-8381	77.3	79.68		
12	45984-8312	59.5	61.90	3.60	2.36
16	45984-8322	62.0	64.44		
20	45984-8332	64.6	66.98		
24	45984-8342	67.1	69.52		
28	45984-8352	69.6	72.06		
32	45984-8362	72.2	74.60		
36	45984-8372	74.7	77.14		
40	45984-8382	77.3	79.68		
12	45984-8313	59.5	61.90	2.90	1.57
16	45984-8323	62.0	64.44		
20	45984-8333	64.6	66.98		
24	45984-8343	67.1	69.52		
28	45984-8353	69.6	72.06		
32	45984-8363	72.2	74.60		
36	45984-8373	74.7	77.14		
40	45984-8383	77.3	79.68		

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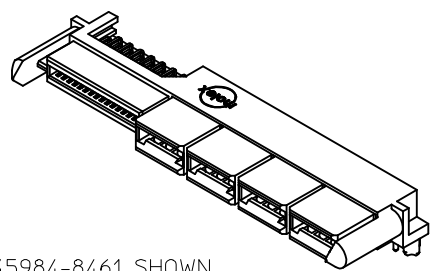
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OPTIONAL GUIDES

OPTIONAL PEGS

GUIDE POST & MOUNTING PEG OPTIONS



45984-8461 SHOWN
FOR REF ONLY
SEE CHART

REVISED	EC NO: UCP2009-0971	2008/11/13	2008/11/14	2008/11/17
DRWN:MBANDURA	CHKD:	APPR:APATEL		
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 ONLY	
DRAWN BY	DATE
SAMIEC	2005/05/13
CHECKED BY	DATE
SAMIEC	2005/05/13
APPROVED BY	DATE
MARGULIS	2005/05/13
MATERIAL NO.	SEE CHART
SIZE	A

SCALE 1:1	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION
TITLE LPH RECEPTACLE ASSEMBLY RT ANGLE 8 CIRCUIT POWER CONNECTOR			
 MOLEX INCORPORATED			
DOCUMENT NO. SD-45984-800			SHEET NO. 4 OF 5
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NO OF SIGNAL	MATERIAL NUMBER	DIM A	DIM C	DIM P	PCB THK
12	45984-8411	59.5	61.90	4.50	3.18
16	45984-8421	62.0	64.44		
20	45984-8431	64.6	66.98		
24	45984-8441	67.1	69.52		
28	45984-8451	69.6	72.06		
32	45984-8461	72.2	74.60		
36	45984-8471	74.7	77.14	3.60	2.36
40	45984-8481	77.3	79.68		
12	45984-8412	59.5	61.90		
16	45984-8422	62.0	64.44		
20	45984-8432	64.6	66.98		
24	45984-8442	67.1	69.52		
28	45984-8452	69.6	72.06		
32	45984-8462	72.2	74.60	2.90	1.57
36	45984-8472	74.7	77.14		
40	45984-8482	77.3	79.68		
12	45984-8413	59.5	61.90		
16	45984-8423	62.0	64.44		
20	45984-8433	64.6	66.98		
24	45984-8443	67.1	69.52		
28	45984-8453	69.6	72.06		
32	45984-8463	72.2	74.60		
36	45984-8473	74.7	77.14		
40	45984-8483	77.3	79.68		

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REVISED	EC NO: UCP2009-0971	2008/11/13	DRWN:MBANDURA	2008/11/14	CHKD:	2008/11/17	APPR:APATEL	2008/11/17	DESCRIPTION
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 ONLY	
DRAWN BY	DATE
SAMIEC	2005/05/13
CHECKED BY	DATE
SAMIEC	2005/05/13
APPROVED BY	DATE
MARGULIS	2005/05/13
MATERIAL NO.	
SIZE	
A	

SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE LPH RECEPTACLE ASSEMBLY RT ANGLE 8 CIRCUIT POWER CONNECTOR		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-45984-800		SHEET NO. 5 OF 5
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