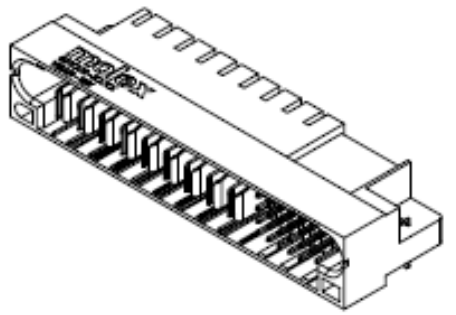
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878746001
Status: Active
Overview: extreme_lphpower
Description: 5.08mm (.200"), 2.54mm (.100") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ Pa-S Header, Through Hole, Right Angle, Beveled Metal Pins, 33 Circuits, Power Alpha 9, Signal 24, Recessed Signal Pin C5, Lead-free



Series image - Reference only

Documents:
Drawing (PDF)
RoHS Certificate of Compliance (PDF)
Product Specification PS-87805-006 (PDF)

General

Product Family	PCB Headers
Series	87874
Application	Board-to-Board
Comments	<LI>Recessed Signal Pin Location at: C5<LI>No Void Pins
Overview	extreme_lphpower
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	34
Circuits Detail	Power Alpha 10|Signal 24
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	4
Orientation	Right Angle
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.200 In
Pitch - Mating Interface (mm)	2.54 mm, 5.08 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
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
87874Series

Mates With
KK® PCB Receptacles like 4455. SL™ IDT Housings like 70430. KK® IDT Housings like 7720 and 70400a. C-Grid® PCB Receptacles like 90147 and 90148

Electrical

Current - Maximum per Contact	2.5A, 30A
Voltage - Maximum	250V (RMS)

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

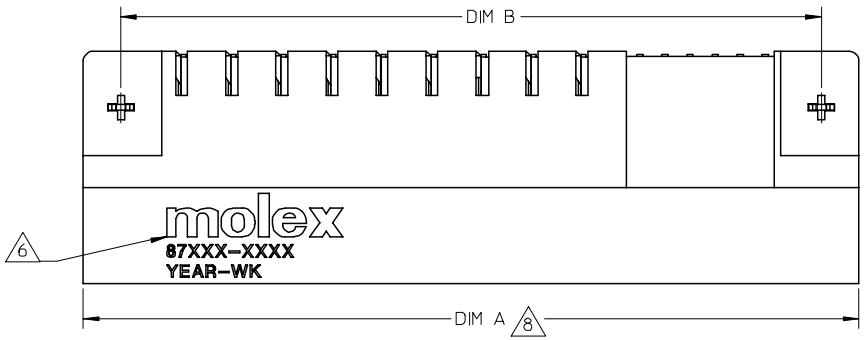
Material Info

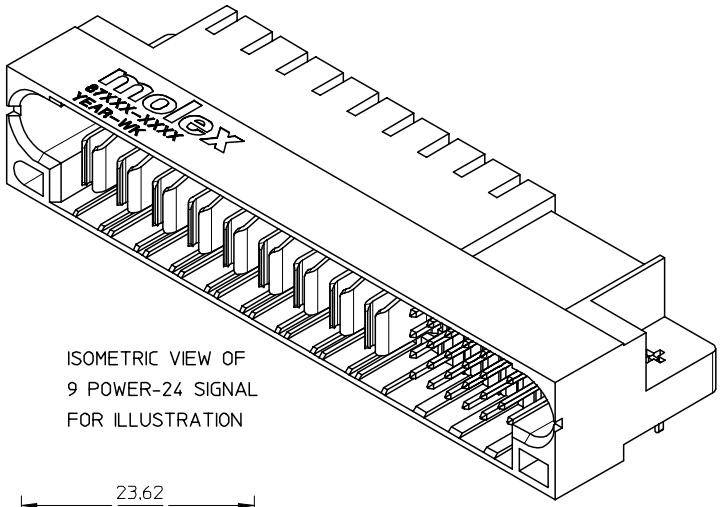
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87805-006
Sales Drawing	SD-87874-018

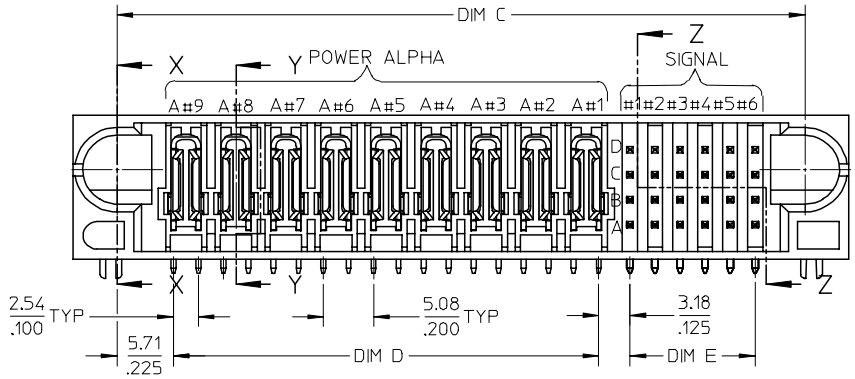
This document was generated on 05/25/2010

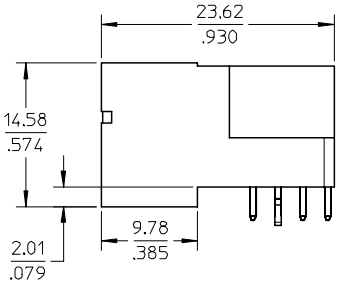
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION





ISOMETRIC VIEW OF
9 POWER-24 SIGNAL
FOR ILLUSTRATION





NOTES:

1. MATERIALS: HOUSING - LCP, GLASS FILLED,
   UL 94V-0, COLOUR: BLACK
   POWER PINS - COPPER ALLOY
   SIGNAL PINS - COPPER ALLOY
   BOARDLOCK - COPPER ALLOY
2. FINISHES : POWER AND SIGNAL PINS :
   SELECTIVE GOLD IN THE CONTACT AREA.
   THICKNESS = 0.76 MICROMETER / 30 MICROINCH MINIMUM
   SELECTIVE TIN IN THE PC TAIL AREA
   THICKNESS = 2.54 MICROMETER / 100 MICROINCH MINIMUM
   1.27um NICKEL OVERALL
3. PRODUCT SPECIFICATION : PS-87805-006
4. SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT AND THICKNESS.
5. COMPONENT STAY AWAY ZONE FROM CONNECTOR.
6. MANUFACTURER LOGO, PART NUMBER AND YEAR-WEEK CODE.
7. PCB NOTE FOR DIAMETER 1.02/.040 PLATED HOLE.
   -DRILLED HOLE SIZE IS 1.151/.0453.
   -PLATED WITH 0.007/.0003 MINIMUM TIN OVER 0.03/.001.
8. 9 POWER ALPHA - 24 SIGNAL IS SHOWN FOR ILLUSTRATION .
   CONNECTOR CONFIGURATION IS AVAILABLE UP TO 203MM/INCH.
   PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER
   CONFIGURATION AND OPTION NEEDED.

DESCRIPTION	DRWN	CHKD	APPR	DATE
DIM A TYPO ERROR	GMENARLY	SKANG	MLONG	2007/03/14
EC NO: S2007-0801				2007/03/14

REV A1

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

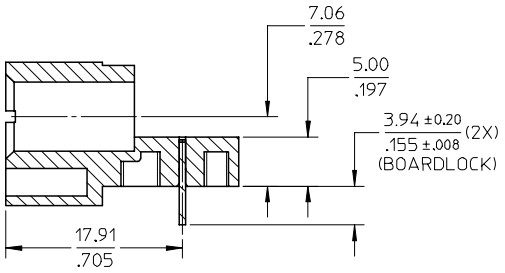
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

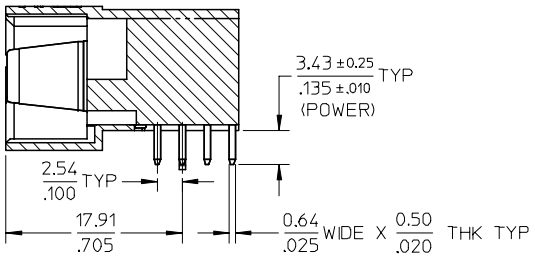
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM/IN
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	KFLIM
DATE	2007/02/07
CHECKED BY	GMENARLY
DATE	2007/02/14
APPROVED BY	MLONG
DATE	2007/02/15
MATERIAL NO.	SEE TABLE
TITLE	POWER CONNECTOR HEADER P(A)-S CONFIG. R/A, T/H BOARDLOCK
	MOLEX INCORPORATED
DOCUMENT NO.	SD-87874-018
SHEET NO.	1 OF 3
SIZE	A3

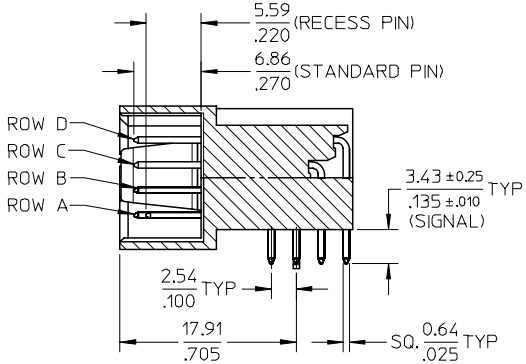
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



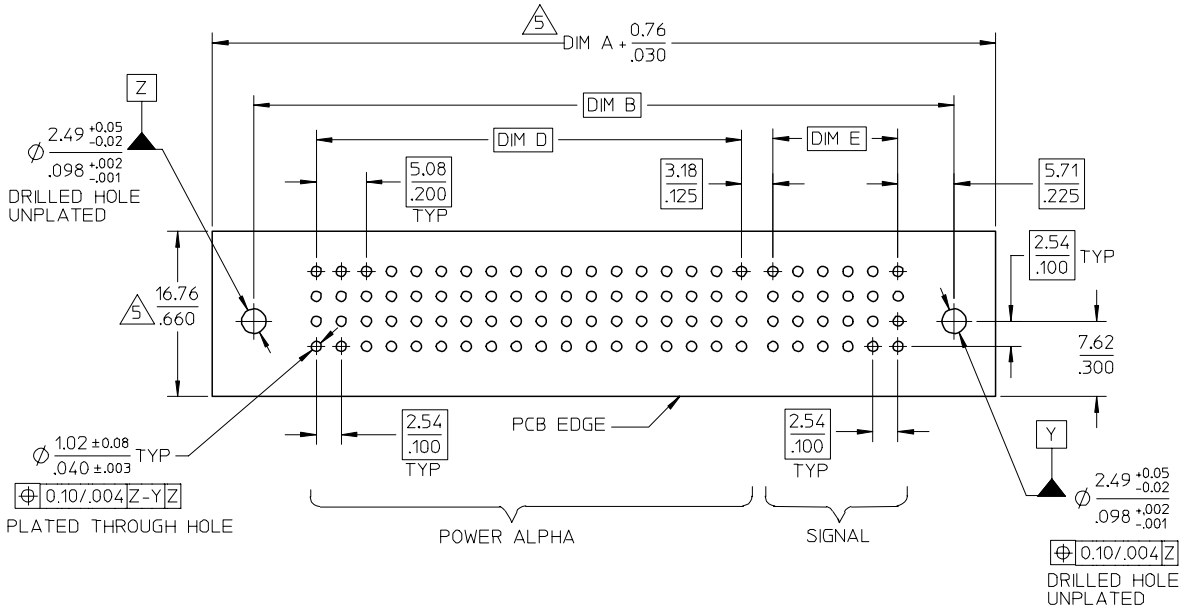
SECTION X-X



SECTION Y-Y

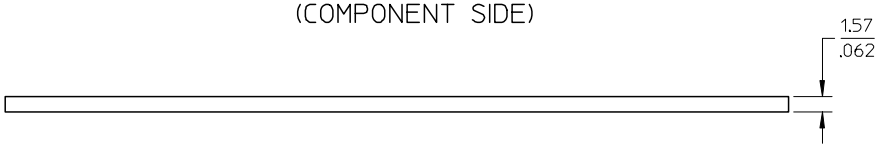


SECTION Z-Z



RECOMMENDED PCB LAYOUT

(COMPONENT SIDE)



DIM A TYPO ERROR
EC NO: S2007-0801 2007/03/14
DRWN:GMENARLY 2007/03/14
CHKD:SKANG 2007/03/14
APPR:MLONG 2007/03/14
DESCRIPTION

A1

REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KFLIM DATE: 2007/02/07
CHECKED BY: GMENARLY DATE: 2007/02/14
APPROVED BY: MLONG DATE: 2007/02/15

TITLE: POWER CONNECTOR HEADER P(A)-S CONFIG. R/A, T/H BOARDLOCK

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE

DOCUMENT NO.: SD-87874-018

SHEET NO.: 2 OF 3

SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

ASSEMBLY PART NUMBER	P-S CONFIGURATION							COMPONENT							PACKAGING
	POWER ALPHA	SIGNAL	DIM A	DIM B	DIM C	DIM D	DIM E	STANDARD SIGNAL PIN ROW	STANDARD SIGNAL PIN COLUMN	STANDARD SIGNAL PIN LENGTH	RECESS SIGNAL PIN ROW	RECESS SIGNAL PIN COLUMN	RECESS SIGNAL PIN LENGTH	VOID PIN LOCATION	
87874-6001	10	24	83.83 3.300	76.20 3.000	74.93 2.950	48.26 1.900	12.70 .500	D C B A	ALL	6.86/.270	C	5	5.59/.220	NIL	TRAY

DIM A TYPO ERROR
EC NO: S2007-0801 2007/03/14
DRWN:GMENARLY 2007/03/14
CHKD:SKANG 2007/03/14
APPR:MLONG 2007/03/14
DESCRIPTION
REV
A1

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: KFLIM DATE: 2007/02/07
CHECKED BY: GMENARLY DATE: 2007/02/14
APPROVED BY: MLONG DATE: 2007/02/15

TITLE: POWER CONNECTOR HEADER P(A)-S CONFIG. R/A, T/H BOARDLOCK

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87874-018
SHEET NO.: 3 OF 3
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION