

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876312013

Status:

Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ P-S-P Header, Through Hole, Right Angle, Long Contacts, 48 Circuits, Power Alpha 4, Signal 40, Power Beta 4, Recessed Signal Pins A1, A10, Lead-free

Documents:

3D Model

Drawing (PDF)

Product Specification PS-87631-006 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

TUV

R50078473

General

Product Family

PCB Headers

Series

87631

Application

Board-to-Board

Comments

Long ContactsRecessed Signal Pins: A1, A10

Overview

extreme_powerplus_ssi

Product Name

EXTreme PowerPlus™

Physical

Breakaway

No

Circuits (Loaded)

48

Circuits Detail

Power Alpha 4, Signal 40, Power Beta 4

Color - Resin

Black

Durability (mating cycles max)

100

First Mate / Last Break

Yes

Flammability

94V-0

Glow-Wire Compliant

No

Guide to Mating Part

Yes

Keying to Mating Part

Yes

Lock 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 Retention

Yes

PCB Thickness Recommended (in)

0.062 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tray

Pitch - Mating Interface (in)

0.100 In, 0.250 In

Pitch - Mating Interface (mm)

2.54 mm, 6.35 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

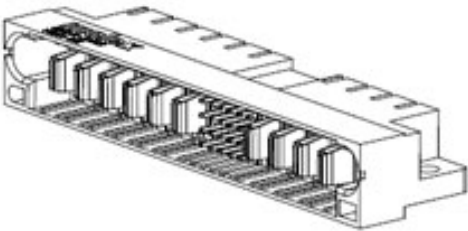


image - Reference only

Series

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
87631Series

Mates With
87633 Vertical Press-Fit Receptacle. 87622 Vertical Through Hole Receptacle. 87632 Right Angle Through Hole Receptacle

Stackable	No
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	2.5A, 30A
Voltage - Maximum	250V DC

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

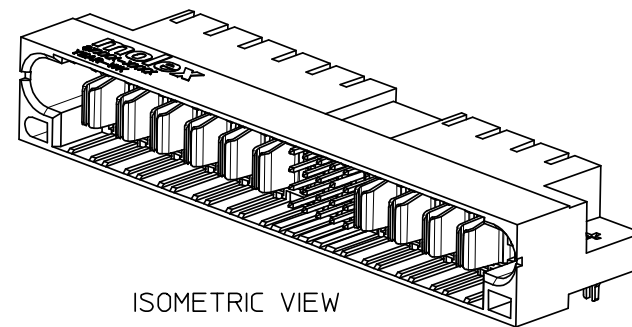
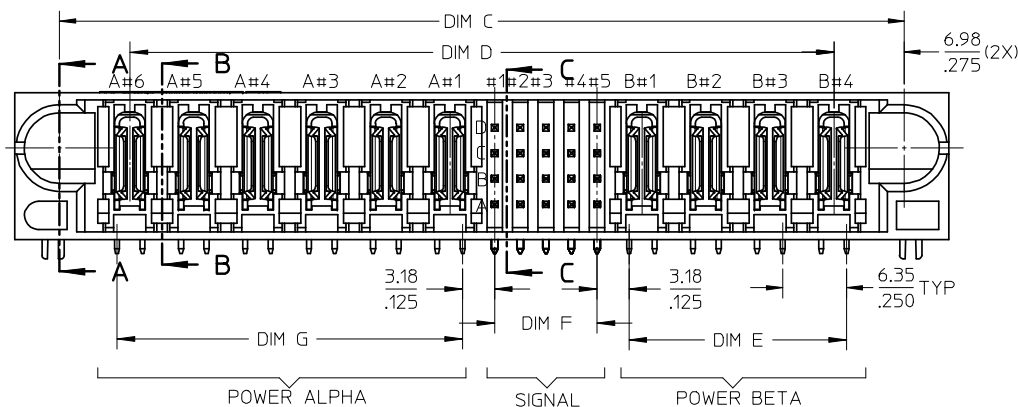
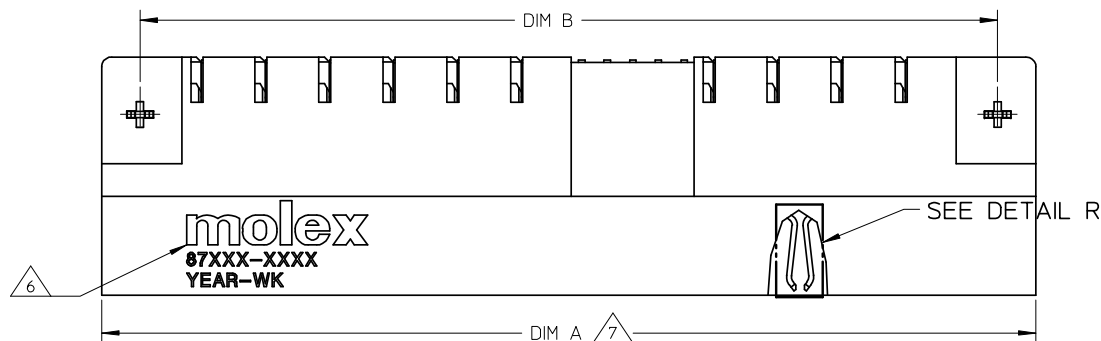
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87631-014

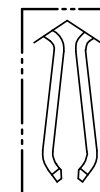
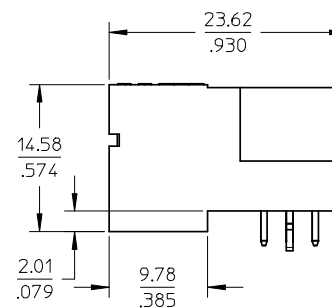
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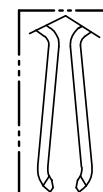
10 9 8 7 6 5 4 3 2 1



ISOMETRIC VIEW



SHORT BLADE OPTION



LONG BLADE OPTION

DETAIL R
(SEE TABLE FOR BLADE OPTION)

NOTES:

1. MATERIALS: LCP GLASS FILLED , UL94V-0, COLOUR: BLACK

POWER PINS - COPPER ALLOY

SIGNAL PINS - COPPER ALLOY

2. FINISHES: POWER & SIGNAL PINS:

SELECTIVE GOLD IN CONTACT AREA.

THICKNESS= 0.76 MICROMETER/ 30 MICROINCH MINIMUM

SELECTIVE TIN THE PC TAIL AREA

THICKNESS= 2.54 MICROMETER/100 MICROINCH MINIMUM

1.27um NICKEL OVERALL.

3. PRODUCT SPECIFICATION: PS-87631-006.

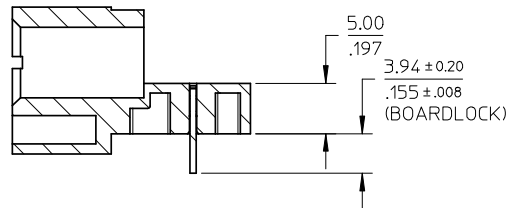
4. SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT AND THICKNESS.

5. COMPONENT STAY AWAY ZONE FROM CONNECTOR.

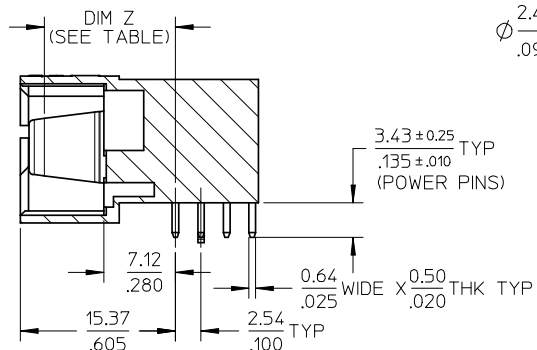
6. MANUFACTURER LOGO, PART NUMBER AND YEAR-WEEK CODE.

7. 6P ALPHA-20 SIGNAL-4P BETA CONFIGURATION IS SHOWN FOR ILLUSTRATION. P-S-P CONFIGURATION IS AVAILABLE UP TO 203mm/8 INCHES. PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER CONFIGURATION AND OPTION NEEDED.

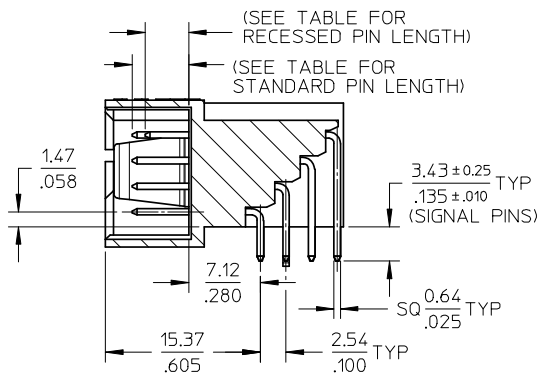
PDR#S-001800-00-00 EC NO: S2008-1060 DRAWN BY: CHINATSEE CHKD: SKANG APPR: MLONG REV: D6		DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
						DRAWN BY DATE		TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, BOARD-LOCK		
				4 PLACES ± --- ± ---		BHL0W 2002/09/24				
				3 PLACES ± --- ± .010		CHECKED BY DATE				
				2 PLACES ± 0.25 ± ---		KCL ING 2002/09/30				
		1 PLACE ± --- ± ---		APPROVED BY DATE		MOLEX MOLEX INCORPORATED				
		ANGULAR ± 3 °		SKTOH 2002/10/03						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				SEE TABLE		SD-87631-014		1 OF 3		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				



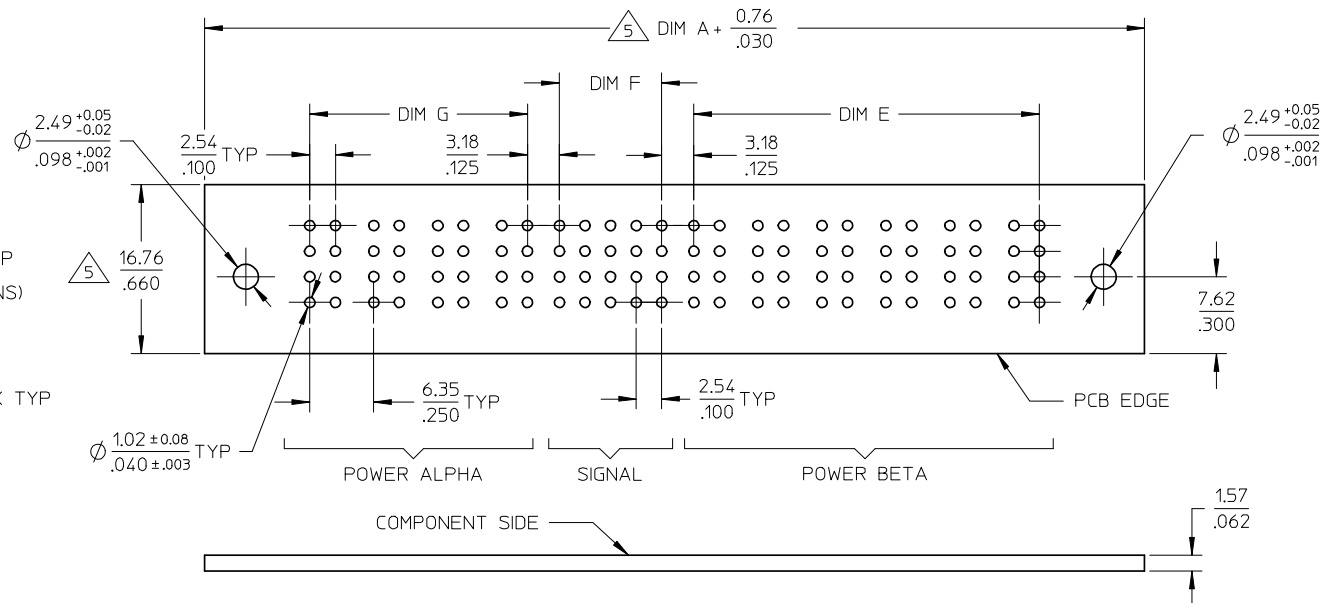
SECTION A-A



SECTION B-B



SECTION C-C



RECOMMENDED PCB LAYOUT

PDR#S-001800-00-00 EC NO: S2008-1060 DRWN:ATSEE CHKD:SKANG APPR:MLONG 2008/06/13 2008/06/13 2008/06/13	QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY BHLOW	DATE 2002/09/24	TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, BOARD-LOCK	MOLEX MOLEX INCORPORATED	SHEET NO. 2 OF 3	
			4 PLACES	± ---	± ---	CHECKED BY KCL ING	DATE 2002/09/30				
			3 PLACES	± ---	± .010	APPROVED BY SKTOH	DATE 2002/10/03				
			2 PLACES	± 0.25	± ---	MATERIAL NO. SEE TABLE					DOCUMENT NO. SD-87631-014
D6	REV		1 PLACE	± ---	± ---	ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

tb_frame_A3_P_AM_T
Rev. E 2006/04/15