

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876313020

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, 18 Circuits, Power Alpha 1, Signal 16, Power Beta 1, Recessed Signal Pin B1, 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 Pin: B1

Overview

extreme_powerplus_ssi

Product Name

EXTreme PowerPlus™

Physical

Breakaway

No

Circuits (Loaded)

18

Circuits Detail

Power Alpha 1, Signal 16, Power Beta 1

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 Locator

Yes

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

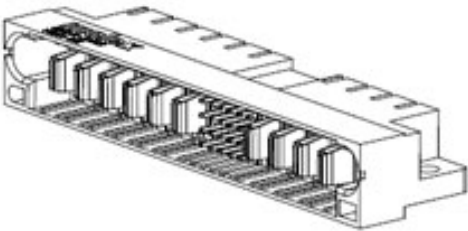


image - Reference only

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

Shrouded	Fully
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

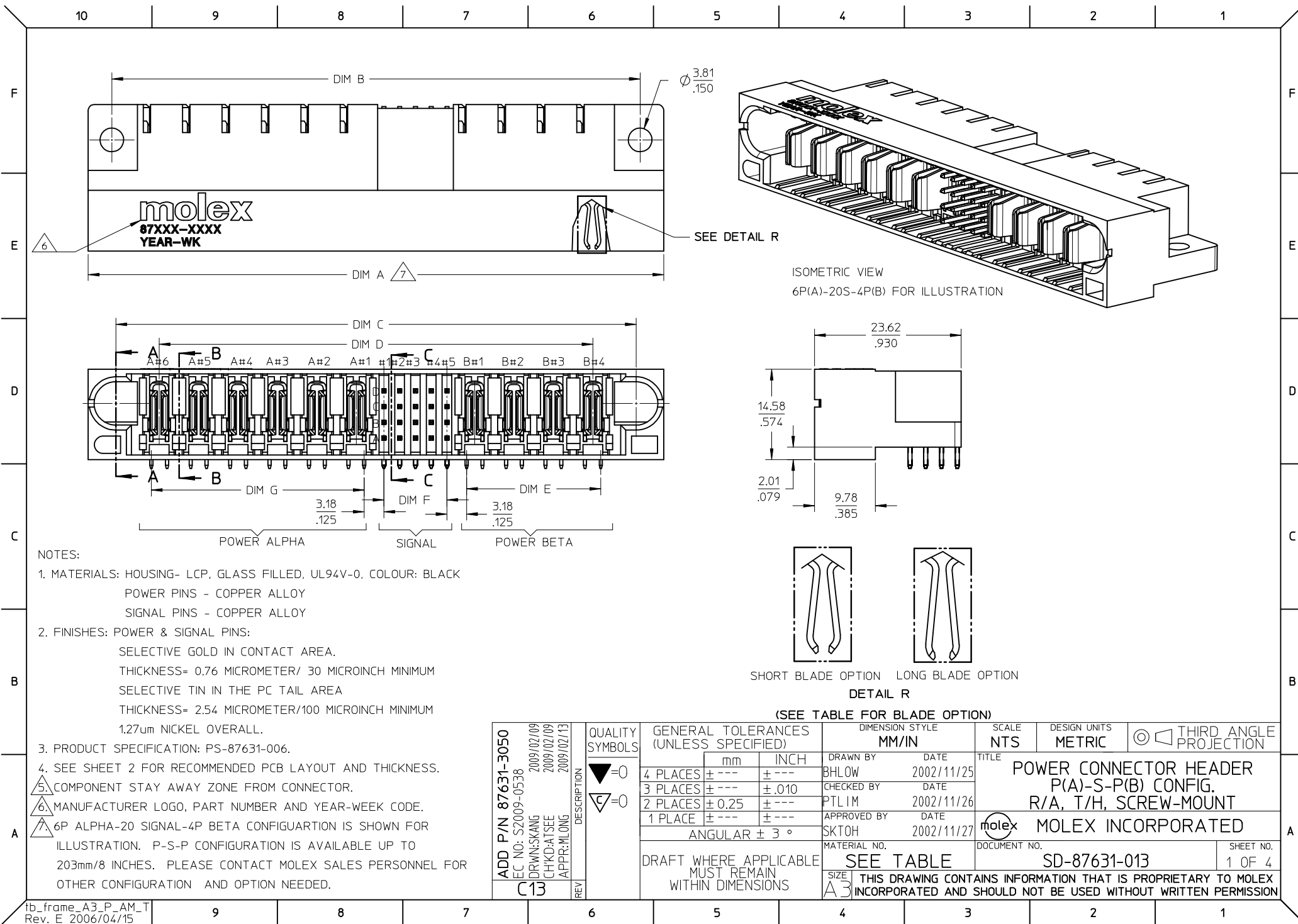
Material Info

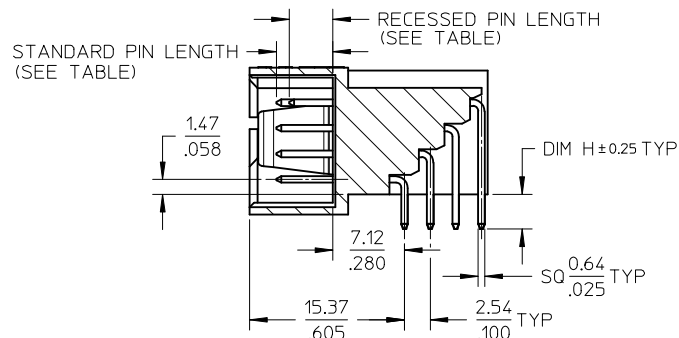
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87631-013

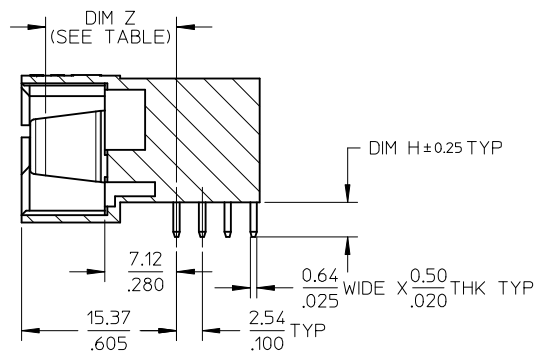
This document was generated on 05/25/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

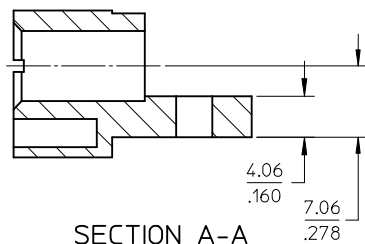




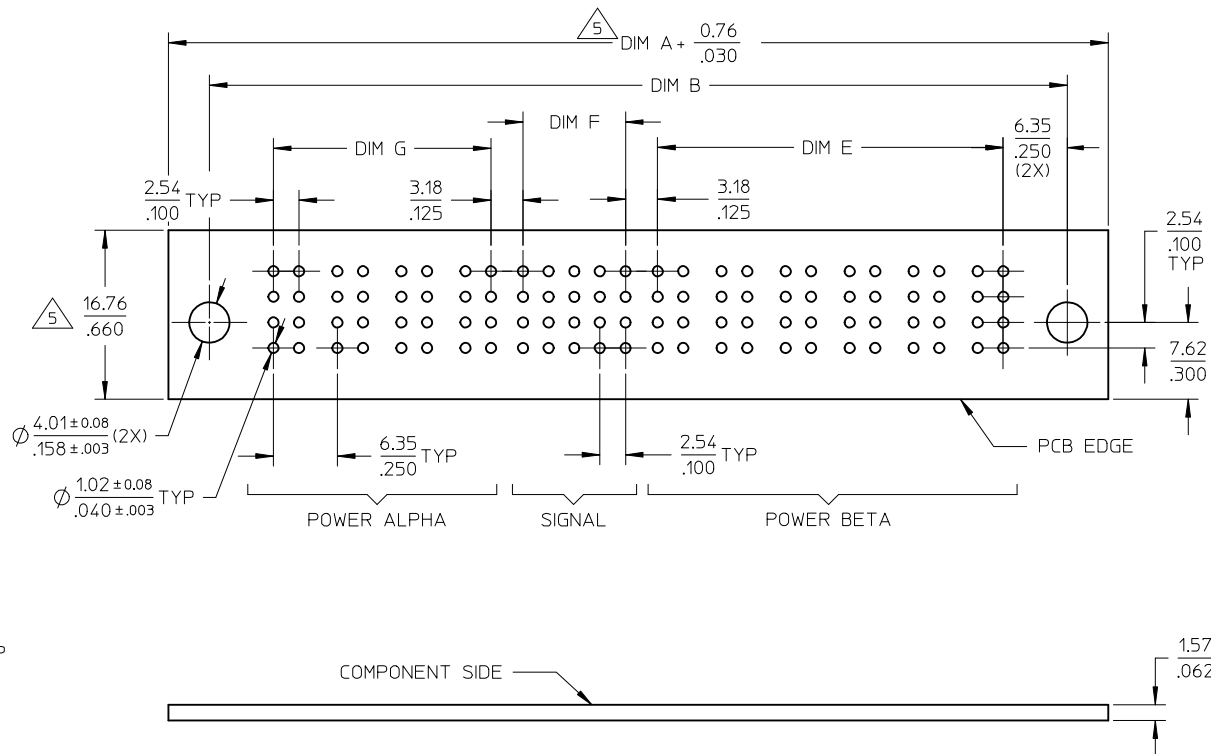
SECTION C-C



SECTION B-B



SECTION A-A



RECOMMENDED PCB LAYOUT

ADD P/N 87631-3050 EC NO: S2009-0538 DRWN:SKANG CHKD:ATSEE APPR:MLONG	2009/02/09 2009/02/09 2009/02/13	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, SCREW-MOUNT MOLEX INCORPORATED		
						CHECKED BY DATE				
						APPROVED BY DATE				
						MATERIAL NO.				
C13	REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87631-013		2 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

	10		9		8		7		6		5		4		3		2		1		
	PART NUMBER	P-S-P CONFIGURATION			DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	POWER BLADE OPTIONS		STANDARD SIGNAL	RECESSED SIGNAL PIN		VOID SIGNAL LOCATION	PACKAGING		
		POWER ALPHA	SIGNAL	POWER BETA									TYPE	DIM Z ±0.13/.005	PIN LENGTH	LENGTH	LOCATION				
F	87631-3000	3	24	5	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	27.94 1.100	12.70 .500	15.24 .600	3.43 .135	SHORT CONTACT	13.32 / .524	5.59 / .220	4.32/.170	NIL	TRAY	F		
	87631-3001	6	20	4	92.71 3.650	85.10 3.350	83.82 3.300	69.86 2.750	21.59 .850	10.16 .400	34.29 1.350						C2	TRAY			
	87631-3002	4	24	4	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	21.59 .850	12.70 .500	21.59 .850						A1	TRAY			
	87631-3003	3	24	3	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	15.24 .600	12.70 .500	15.24 .600						NIL	TRAY			
E	87631-3004	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350						NIL	TRAY	E		
	87631-3006	2	32	2	62.23 2.450	54.61 2.150	53.34 2.100	39.37 1.550	8.89 .350	17.78 .700	8.89 .350						NIL	TRAY			
	87631-3008	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350						B4	TRAY			
	87631-3009	2	24	4	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	21.59 .850	12.70 .500	8.89 .350						B4	TRAY			
D	87631-3010	4	24	6	95.24 3.750	87.63 3.450	86.35 3.400	72.39 2.850	34.29 1.350	12.70 .500	21.59 .850						B4	TRAY	D		
	87631-3011	6	24	5	101.59 4.000	93.98 3.700	92.70 3.650	78.74 3.100	27.94 1.100	12.70 .500	34.29 1.350						A3, B6, C3, D5	TRAY			
	87631-3013	4	24	2	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	8.89 .350	12.70 .500	21.59 .850		↓	↓	↓	↓	C1	TRAY			
	87631-3020	1	16	1	39.37 1.550	31.75 1.250	30.48 1.200	16.51 .650	2.54 .100	7.62 .300	2.54 .100		LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	B1	NIL		TRAY	
C	87631-3015	4	20	4	80.00 3.150	72.39 2.850	71.11 2.800	57.15 2.250	21.59 .850	10.16 .400	21.59 .850						B3	TRAY	C		
	87631-3021	6	24	5	101.59 4.000	93.98 3.700	92.70 3.650	78.74 3.100	27.94 1.100	12.70 .500	34.29 1.350						A3, B6, C3, D5	TRAY			
	87631-3022	2	12	2	49.53 1.950	41.91 1.650	40.64 1.600	26.67 1.050	8.89 .350	5.08 .200	8.89 .350	↓					B2 C3	TRAY			
	87631-3023	2	12	2	49.53 1.950	41.91 1.650	40.64 1.600	26.67 1.050	8.89 .350	5.08 .200	8.89 .350	2.34 .092					B1 C3	TRAY			
B	87631-3024	1	12	1	36.83 1.450	29.21 1.150	27.94 1.100	13.97 5.50	2.54 .100	5.08 .200	2.54 .100	3.43 .135					NIL	TRAY	B		
	87631-3028	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350	3.43 .135					C6	TRAY			
	87631-3031	4	24	2	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	8.89 .350	12.70 .500	21.59 .850	3.43 .135					C1	TRAY			
	87631-3037	3	24	3	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	15.24 .600	12.70 .500	15.24 .600	3.43 .135					ALL EXCEPT A6,B1,C1	TRAY			
	87631-3038	4	16	2	64.77 2.550	57.16 2.250	55.88 2.200	41.92 1.650	8.89 .350	7.62 .300	21.59 .850	3.43 .135					A1,A2,A4,B1,B3 C2,C4,D1,D2,D3,D4	TRAY			
	87631-3041	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350	3.43 .135	↓	↓	↓	↓	C3	TRAY			

A	ADD P/N 87631-3050 EC NO: S2009-0538 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2009/02/09 2009/02/09 2009/02/13	QUALITY SYMBOLS ▽=0 ▽=0 DESCRIPTION REV	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 DRAWN BY DATE CHECKED BY DATE PTL IM 2002/11/26 APPROVED BY DATE SKTOH 2002/11/27 MATERIAL NO. SEE TABLE	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT MOLEX INCORPORATED SD-87631-013	SHEET NO. 3 OF 4

10		9		8		7		6		5		4		3		2		1	
F	PART NUMBER	P-S-P CONFIGURATION			DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	POWER BLADE OPTIONS		STANDARD SIGNAL PIN LENGTH	RECESSED SIGNAL PIN		VOID SIGNAL LOCATION	PACKAGING
		POWER ALPHA	SIGNAL	POWER BETA									TYPE	DIM Z ±0.13/.005		LENGTH	LOCATION		
87631-3042	2	16	2	52.07 2.050	44.45 1.750	43.18 1.700	29.21 1.150	8.89 .350	7.62 .300	8.89 .350	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	B3,C4	NIL	TRAY	
87631-3043	7	28	7	123.19 4.850	115.57 4.550	114.30 4.500	100.33 3.950	40.64 1.600	15.24 .600	40.64 1.600	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	B4,C4	NIL	TRAY	
87631-3044	7	28	7	123.19 4.850	115.57 4.550	114.30 4.500	100.33 3.950	40.64 1.600	15.24 .600	40.64 1.600	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	NIL	NIL	TRAY	
E	87631-3045	6	28	4	97.79 3.850	90.17 3.550	88.90 3.500	74.93 2.950	21.59 .850	15.24 .600	34.29 1.350	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	A1	A7,B7,C7,D7	TRAY
	87631-3046	6	24	4	95.25 3.750	87.63 3.450	86.36 3.400	72.39 2.850	21.59 .850	12.70 .500	34.29 1.350	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	A1	NIL	TRAY
	87631-3047	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	A6,B6,C6,D6	A1,B2,C2,D1	TRAY
	87631-3048	2	16	2	52.07 2.050	44.45 1.750	43.18 1.700	29.21 1.150	8.89 .350	7.62 .300	8.89 .350	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	A2,D4	A1,B2,C2,D1	TRAY
D	87631-3049	4	24	4	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	21.59 .850	12.70 .500	21.59 .850	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	A6	NIL	TRAY
	87631-3050	2	24	2	57.15 2.250	49.53 1.950	48.26 1.900	34.29 1.350	8.89 .350	12.70 .500	8.89 .350	3.43 .135	LONG CONTACT	14.12 / .556	6.86 / .270	5.59/.220	A5	NIL	TRAY
C																			
B																			
A																			
tb_frame_A3_P_AM_T Rev. F 2006/04/15		9		8		7		6		5		4		3		2		1	

ADD P/N 87631-3050 EC NO: S2009-0538 DRWN:SKANG CHKD:ATSEE APPR:W LONG C13	2009/02/09 2009/02/09 2009/02/13	DESCRIPTION REV	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT MOLEX INCORPORATED SD-87631-013		SHEET NO. 4 OF 4
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	mm	INCH	DRAWN BY BHLOW	DATE 2002/11/25	MATERIAL NO. SEE TABLE		DOCUMENT NO.		
					4 PLACES	± ---	± ---	CHECKED BY PTL IM				DATE 2002/11/26	
					3 PLACES	± ---	± .010	APPROVED BY SKTOH				DATE 2002/11/27	
					2 PLACES	± 0.25	± ---						
1 PLACE		± ---	± ---										
ANGULAR ± 3 °													