

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876313038

Status:

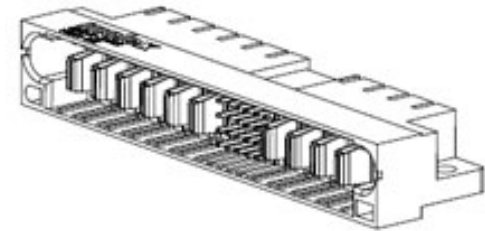
Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch Power, 3.18mm (.125"), 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ P-S-P Header, Through Hole, Right Angle, Long Contacts, 22 Circuits, Power Alpha 4, Signal 16, Power Beta 2, Recessed Signal Pins A1, A2, A4, B1, B3, C2, C4, D1, D2



Series

image - Reference only

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

Series

Application

Comments

PCB Headers

87631

Board-to-Board

 Long ContactsRecessed Signal Pins: A1, A2, A4, B1, B3, C2, C4, D1, D2, D3, D4

Overview

Product Name

extreme_powerplus_ssi

EXTreme PowerPlus™

Physical

Breakaway

Circuits (Loaded)

Circuits Detail

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

No

22

Power Alpha 4, Signal 16, Power Beta 2

Black

100

Yes

94V-0

No

Yes

Yes

Yes

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

4

Right Angle

0.135 In

3.43 mm

Yes

Yes

0.062 In

1.57 mm

Tray

0.100 In, 0.250 In

2.54 mm, 6.35 mm

30

0.76

100

2.54

EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

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

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

Electrical

Current - Maximum per Contact	2.5A, 30A, 50A
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

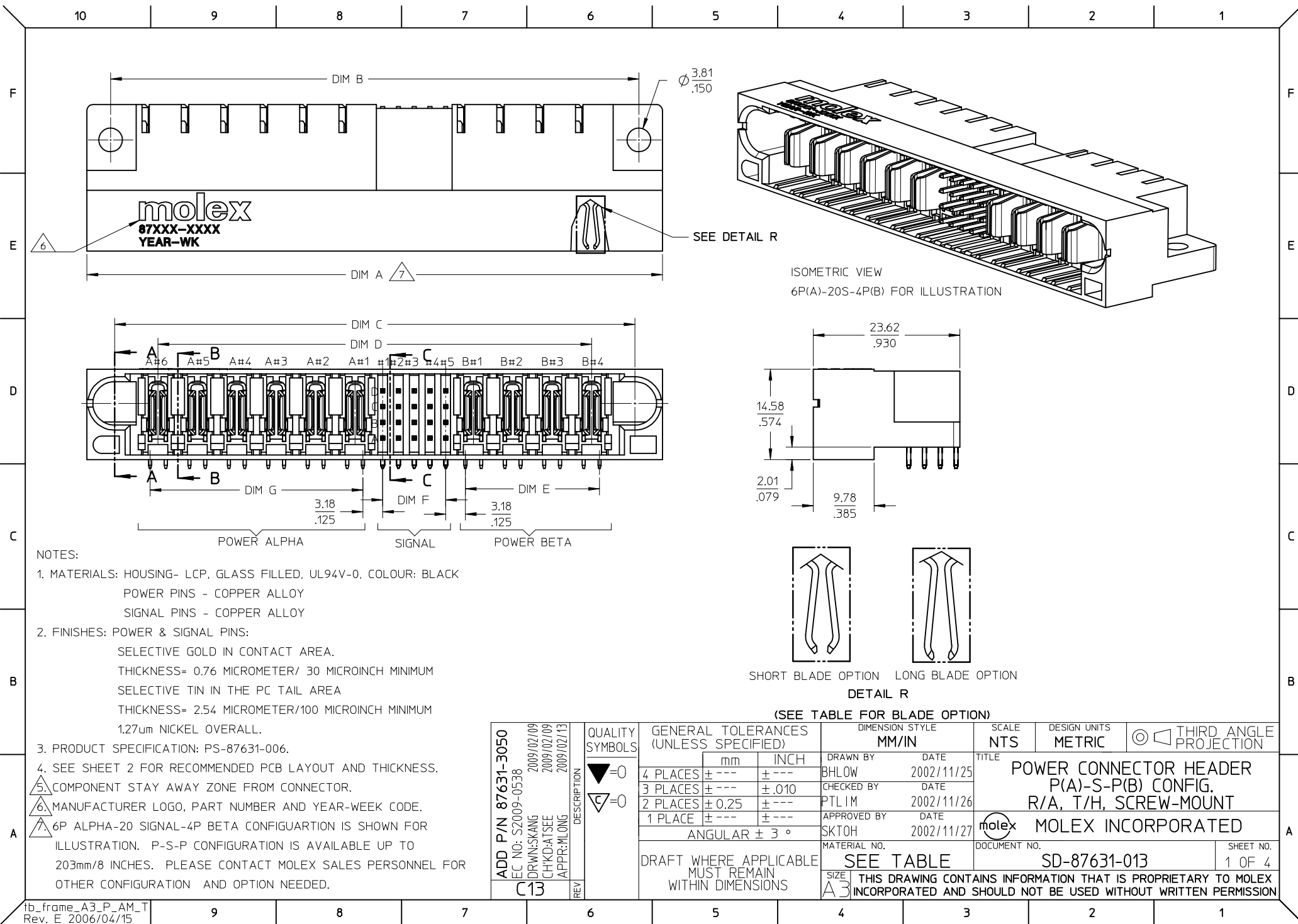
Material Info

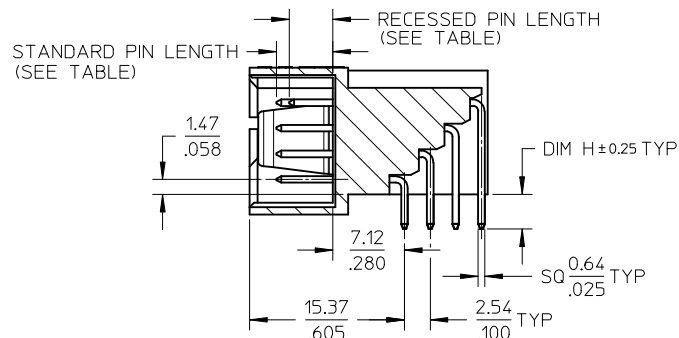
Reference - Drawing Numbers

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

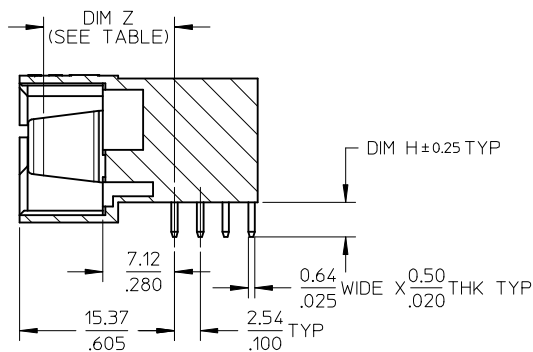
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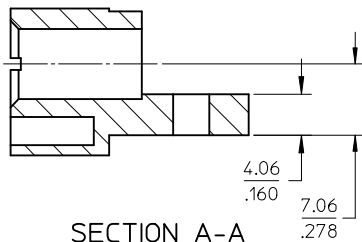




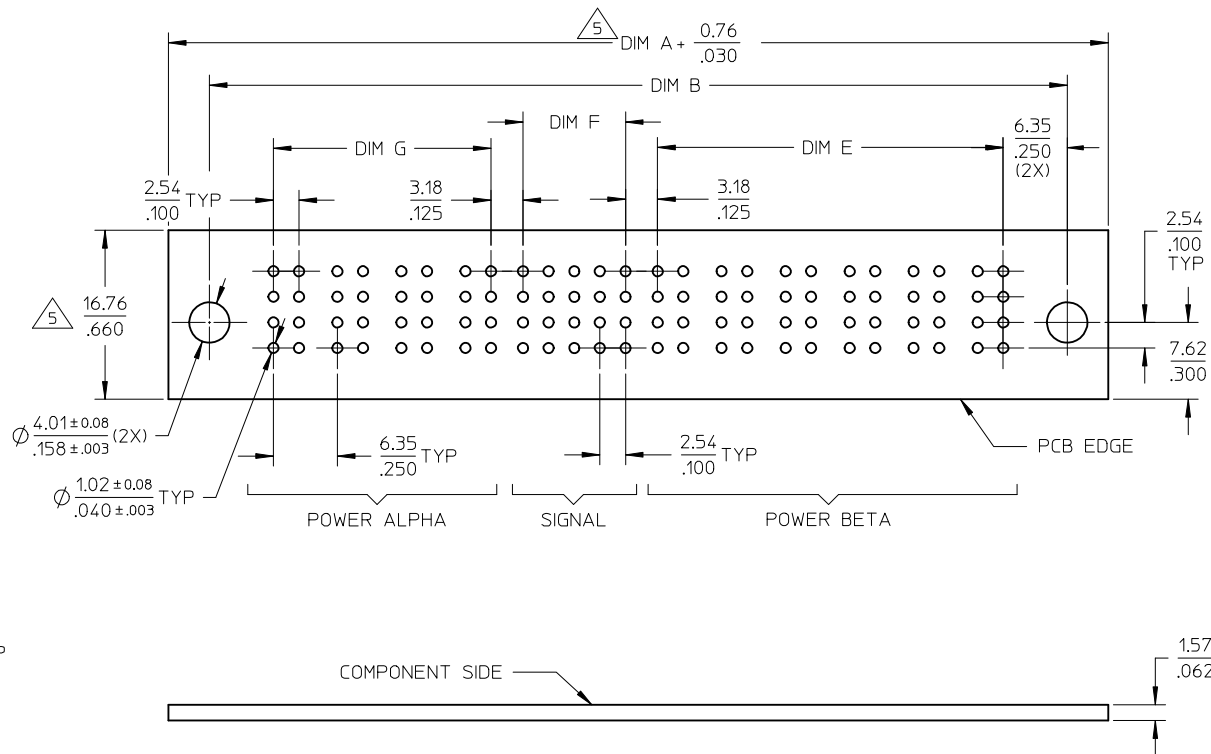
SECTION C-C



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 ⊙ ◻			
				mm	INCH	DRAWN BY BHLW	DATE 2002/11/25	TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2002/11/26					
			3 PLACES	± ---	± .010	APPROVED BY SKTOH	DATE 2002/11/27					
			2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET 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 PIN LENGTH	RECESSED SIGNAL PIN		VOID SIGNAL LOCATION	PACKAGING		
		POWER ALPHA	SIGNAL	POWER BETA									TYPE	DIM Z ±0.13/.005		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	REV DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE				
					mm	INCH	MM/IN		NTS	METRIC	PROJECTION			
				4 PLACES	± ---	± ---	DRAWN BY	DATE	POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT					
				3 PLACES	± ---	± .010	CHECKED BY	DATE						
				2 PLACES	± 0.25	± ---	PTL IM	2002/11/26						
1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED		SHEET NO.							
ANGULAR ± 3 °			SKTOH	2002/11/27										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		DOCUMENT NO.				3 OF 4				
				SEE TABLE		SD-87631-013								
C13				SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

A

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		
	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		
	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		
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	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																			
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) 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 BHLOW 2002/11/25 CHECKED BY DATE PTL IM 2002/11/26 APPROVED BY DATE SKTOH 2002/11/27 MATERIAL NO. SIZE A3 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 DOCUMENT NO. SHEET NO. 4 OF 4 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. F 2006/04/15	9	8	7	6	5	4	3	2	1										