

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876313002

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, Short Contacts, 32 Circuits, Power Alpha 4, Signal 24, Power Beta 4, Recessed Signal Pin A1, 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

Short Contacts|Recessed Signal Pin: A1

Overview

extreme_powerplus_ssi

Product Name

EXTreme PowerPlus™

Physical

Breakaway

No

Circuits (Loaded)

32

Circuits Detail

Power Alpha 4, Signal 24, 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 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

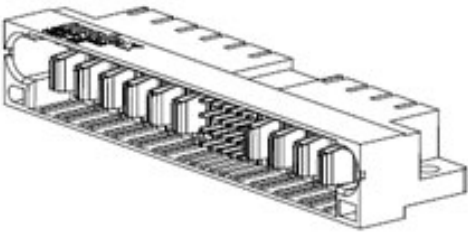


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

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
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

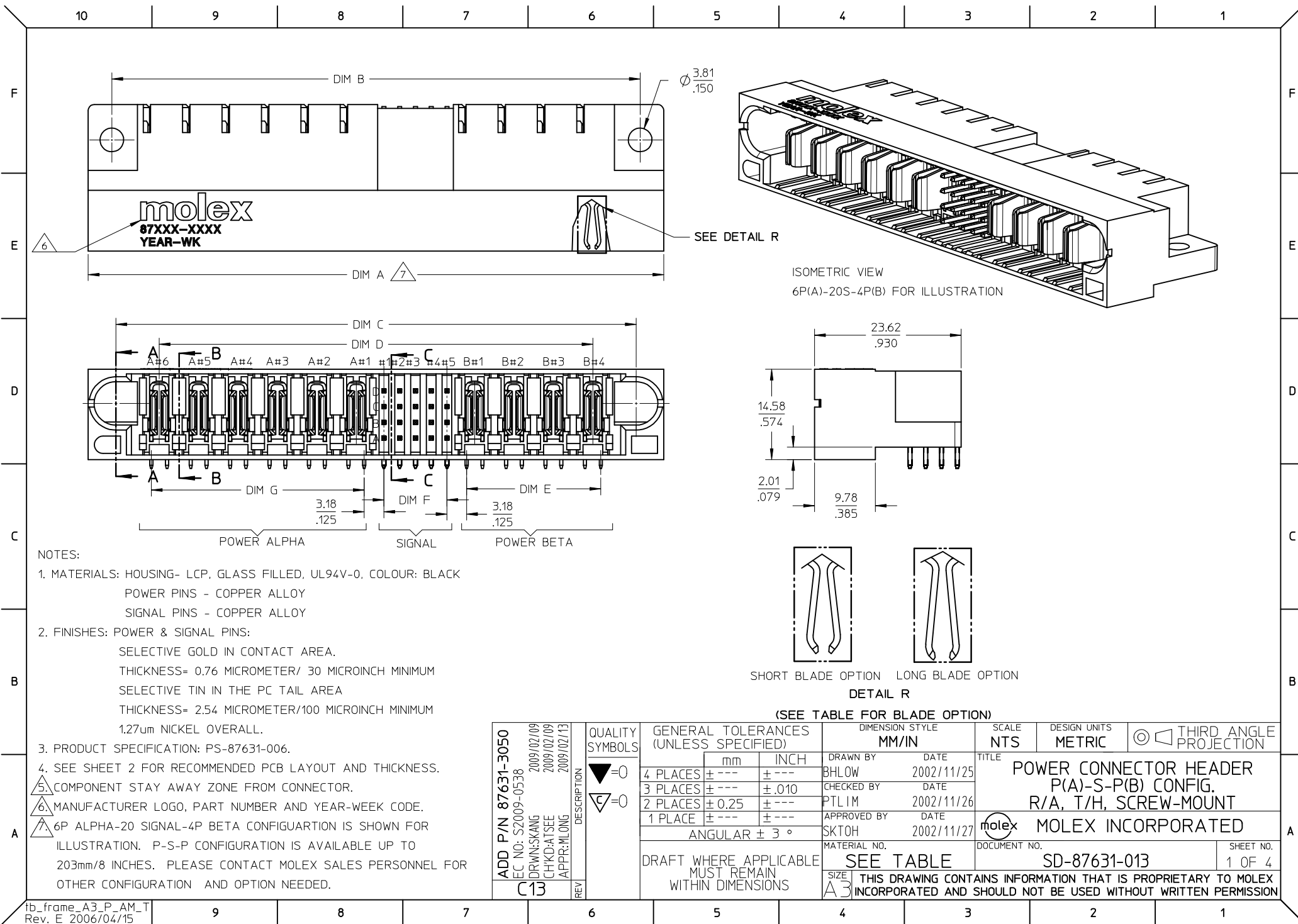
Material Info

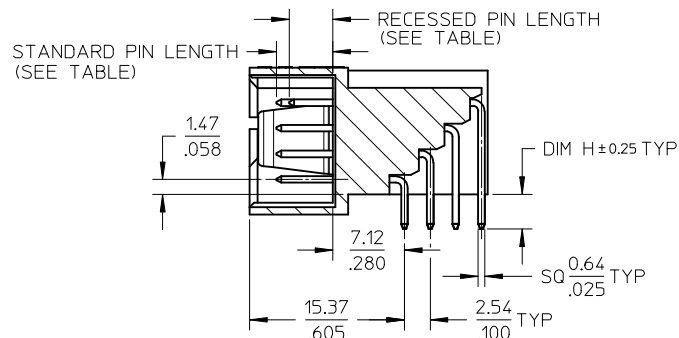
Reference - Drawing Numbers

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

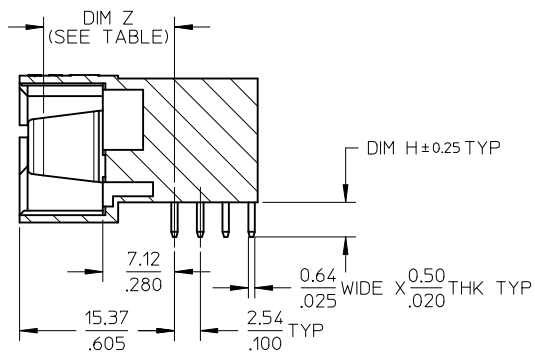
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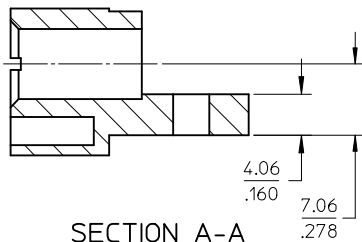




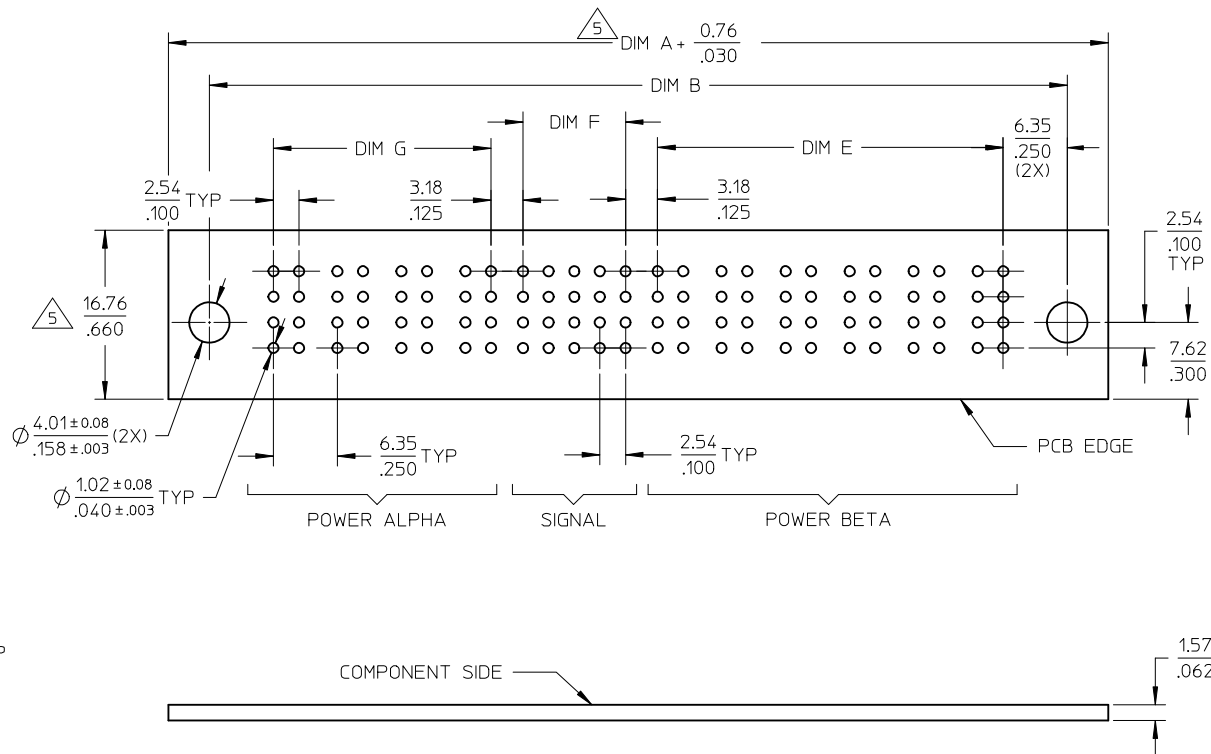
SECTION C-C



SECTION B-B



SECTION A-A



RECOMMENDED PCB LAYOUT

ADD P/N 87631-3050			DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
EC NO: S2009-0538					mm		INCH		DRAWN BY DATE		TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT				
DRWN:SKANG					4 PLACES	± ---	± ---	BHLW		2002/11/25					
CHKD:ATSEE					3 PLACES	± ---	± .010	CHECKED BY		DATE					
APPR:MLONG					2 PLACES	± 0.25	± ---	PTLM		2002/11/26					
			1 PLACE	± ---	± ---	APPROVED BY DATE		SKTOH		2002/11/27		molex MOLEX INCORPORATED			
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.				SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87631-013				2 OF 4			
C13			REV	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	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE		TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, SCREW-MOUNT MOLEX INCORPORATED	SHEET NO. 3 OF 4	
						MM/IN		NTS	METRIC	PROJECTION				
						DRAWN BY DATE		TITLE						
						CHECKED BY DATE								
						APPROVED BY DATE								
C13	REV			4 PLACES ± --- ± ---		BHL0W 2002/11/25						MOLEX	SD-87631-013	
				3 PLACES ± --- ± .010		PTL IM 2002/11/26								
				2 PLACES ± 0.25 ± ---		SKT0H 2002/11/27								
				1 PLACE ± --- ± ---										
				ANGULAR ± 3 °										
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		DOCUMENT NO.						
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

