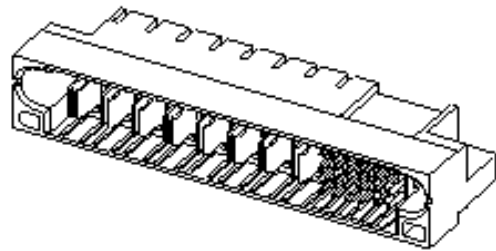


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Part Number: [0876962011](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ Pa-S Header, Through Hole, Right Angle, with Beveled Metal Pins, Long Contacts, 24 Circuits, Power Alpha 4, Signal 20, Recessed Signal Pins A1,A5; Void Pin Locations: A2, B2,C2, D2



Series

image - Reference only

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87631-006 \(PDF\)](#)

General

Product Family	PCB Headers
Series	87696
Application	Board-to-Board
Comments	Long Contact
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	20
Circuits (maximum)	24
Circuits Detail	Power Alpha 4, Signal 20
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	None
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)	1.57 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm
Pitch - Term. Interface (in)	0.100 In, 0.125 In
Pitch - Term. Interface (mm)	2.54 mm, 3.18 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Closed Ends

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

87696Series

Mates With

87697 EXTreme PowerPlus™ Press-Fit Pa-S Receptacle. 87700 EXTreme PowerPlus™ Through Hole Pa-S Receptacle

Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	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

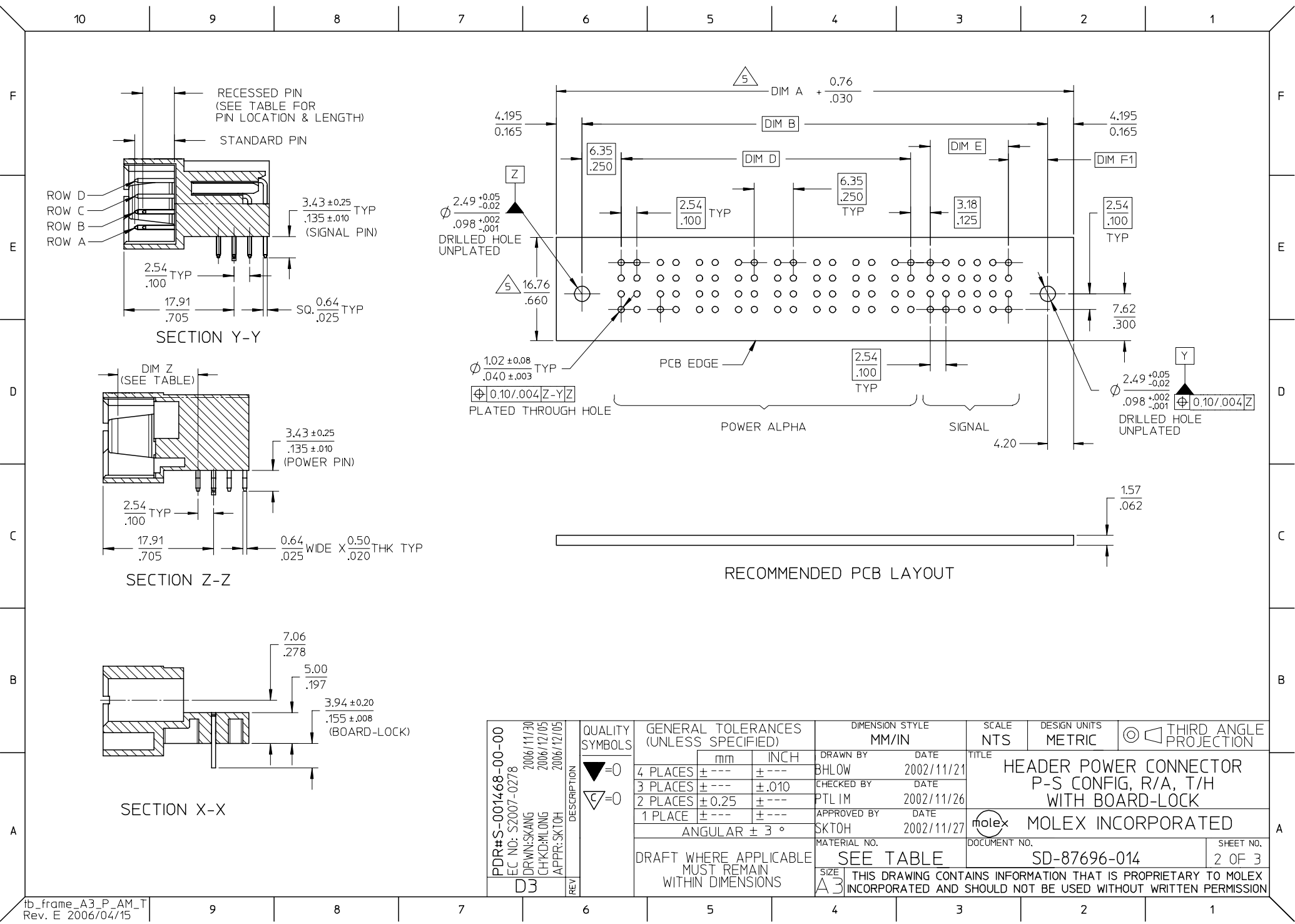
Material Info

Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87696-014

This document was generated on 05/25/2010

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F
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PDR#S-001468-00-00 EC NO: S2007-0278 DRWN:SKANG 2006/11/30 CHKD:MLONG 2006/12/05 APPR:SKTOH 2006/12/05 D3	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE HEADER POWER CONNECTOR P-S CONFIG, R/A, T/H WITH BOARD-LOCK MOLEX INCORPORATED SD-87696-014	SHEET NO. 2 OF 3
				4 PLACES ± ---		DRAWN BY		DATE				
				3 PLACES ± ---		BHLW		2002/11/21				
				2 PLACES ± 0.25		CHECKED BY		DATE				
				1 PLACE ± ---		PTL IM		2002/11/26				
				ANGULAR ± 3 °		APPROVED BY		DATE				
						SKTOH		2002/11/27				
				MATERIAL NO.		DOCUMENT NO.						
				SEE TABLE								
				SIZE A3		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									
F	PART NUMBER	P-S CONFIGURATION		DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM F1	POWER BLADE OPTIONS		STANDARD PIN LOCATION			RECESSED PIN LOCATION			VOID PIN LOCATION	PACKAGING	F						
		POWER	ALPHA								SIGNAL	TYPE	DIM Z ±0.13/.005	ROW	COLUMN	LENGTH	ROW	COLUMN				LENGTH					
	87696-2001	8	24	83.19 3.275	75.57 2.975	74.29 2.925	46.99 1.850	12.70 .500	5.72 .225	6.35 .250	SHORT CONTACT	13.32/.524	D C B A	1,2,3,4 1,2,3,4 1,2,3,4 1,2,3,4	6.45/.254	D C B A	5,6 5,6 5,6 5,6	5.18/.204	NIL	TRAY							
	87696-2002	7	24	76.84 3.025	69.22 2.725	67.94 2.675	40.64 1.600	12.70 .500	5.72 .225	6.35 .250	SHORT CONTACT	13.32/.524	D C B A	ALL	6.45/.254	D	3	5.18/.204	NIL	TRAY							
	87696-2003	7	24	76.84 3.025	69.22 2.725	67.94 2.675	40.64 1.600	12.70 .500	5.72 .225	6.35 .250	LONG CONTACT	14.12/.556	D C B A	ALL	6.86/.270	D	3	5.59/.220	NIL	TRAY							
E	87696-2004	4	16	52.71 2.075	45.09 1.775	43.81 1.725	21.59 .850	7.62 .300	5.72 .225	6.35 .250	LONG CONTACT	14.12/.556	D C B A	ALL	6.86/.270	A	1	5.59/.220	NIL	TRAY	E						
	87696-2008	5	16	59.06 2.325	51.45 2.025	50.17 1.975	27.94 1.100	7.62 .300	5.72 .225	6.35 .250	LONG CONTACT	14.12/.556	D C B A	ALL	6.86/.270	NIL	NIL	NIL	NIL	TRAY							
	87696-2010	8	28	85.09 3.350	77.47 3.050	76.20 3.000	46.99 1.850	15.24 .600	5.08 .200	5.72 .225	LONG CONTACT	14.12/.556	D C B A	1,2,3,4	6.86/.270	D C B A	1,2,3,4,5,6,7 1,2,3,4,5,6,7 1,2,3,4,5,6,7 5,6,7	5.59/.220	NIL	TRAY							
D	87696-2011	4	20	54.61 2.150	46.99 1.850	45.72 1.800	21.59 0.850	10.16 .400	5.08 .200	5.72 .225	LONG CONTACT	14.12/.556	D C B A	1,3,4,5 1,3,4,5 1,3,4,5 3,4,	6.86/.270	D C B A	1,5	5.59/.220	D2 C2 B2 A2	TRAY	D						
	87696-2012	9	16	83.82 3.300	76.20 3.000	74.93 2.950	53.34 2.100	7.62 .300	5.08 .200	5.72 .225	LONG CONTACT	14.12/.556	D C B A	ALL	6.86/.270	NIL	NIL	NIL	NIL	TRAY							
C	87696-2014	4	24	57.15 2.250	49.53 1.950	48.26 1.900	21.59 .850	12.70 .500	5.08 .200	5.72 .225	LONG CONTACT	14.12/.556	D C B A	ALL	6.86/.270	NIL	NIL	NIL	NIL	TRAY	C						
SHORT BLADE OPTION LONG BLADE OPTION DETAIL R (SEE TABLE FOR BLADE OPTION)																						B					
A	PDR#S-001468-00-00 EC NO: S2007-0278 DRWN:SKANG CHKD:M LONG APPR:SKTOH 2006/11/30 2006/12/05 2006/12/05 REV D3 DESCRIPTION QUALITY SYMBOLS ▽=0 ▽=0 GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .010</td></tr><tr><td>2 PLACES</td><td>± 0.25</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr></table> ANGULAR ± 3 ° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS DIMENSION STYLE MM/IN DRAWN BY BHLOW CHECKED BY PTL IM APPROVED BY SKTOH MATERIAL NO. SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION HEADER POWER CONNECTOR P-S CONFIG, R/A, T/H WITH BOARD-LOCK MOLEX MOLEX INCORPORATED SD-87696-014 SHEET NO. 3 OF 3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .010	2 PLACES	± 0.25	± ---	1 PLACE	± ---	± ---	A	
	mm	INCH																									
4 PLACES	± ---	± ---																									
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1 PLACE	± ---	± ---																									
tb_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1																		