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Part Number:

0876963012

Status:

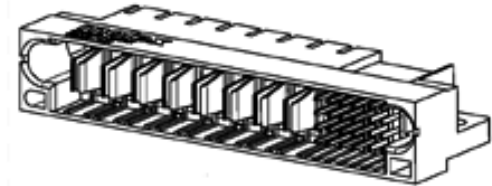
Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ Pa-S Header, Through Hole, Right Angle, Screw Mount, Long Contacts, 26 Circuits, Power Alpha 2, Signal 24, Recessed Pin Location: C2, Lead-free



Series

image - Reference only

Documents:

Drawing (PDF)

Product Specification PS-87631-006 (PDF)

RoHS Certificate of Compliance (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)	26
Circuits (maximum)	26
Circuits Detail	Power Alpha 2, Signal 24
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 - 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	No
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
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

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

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

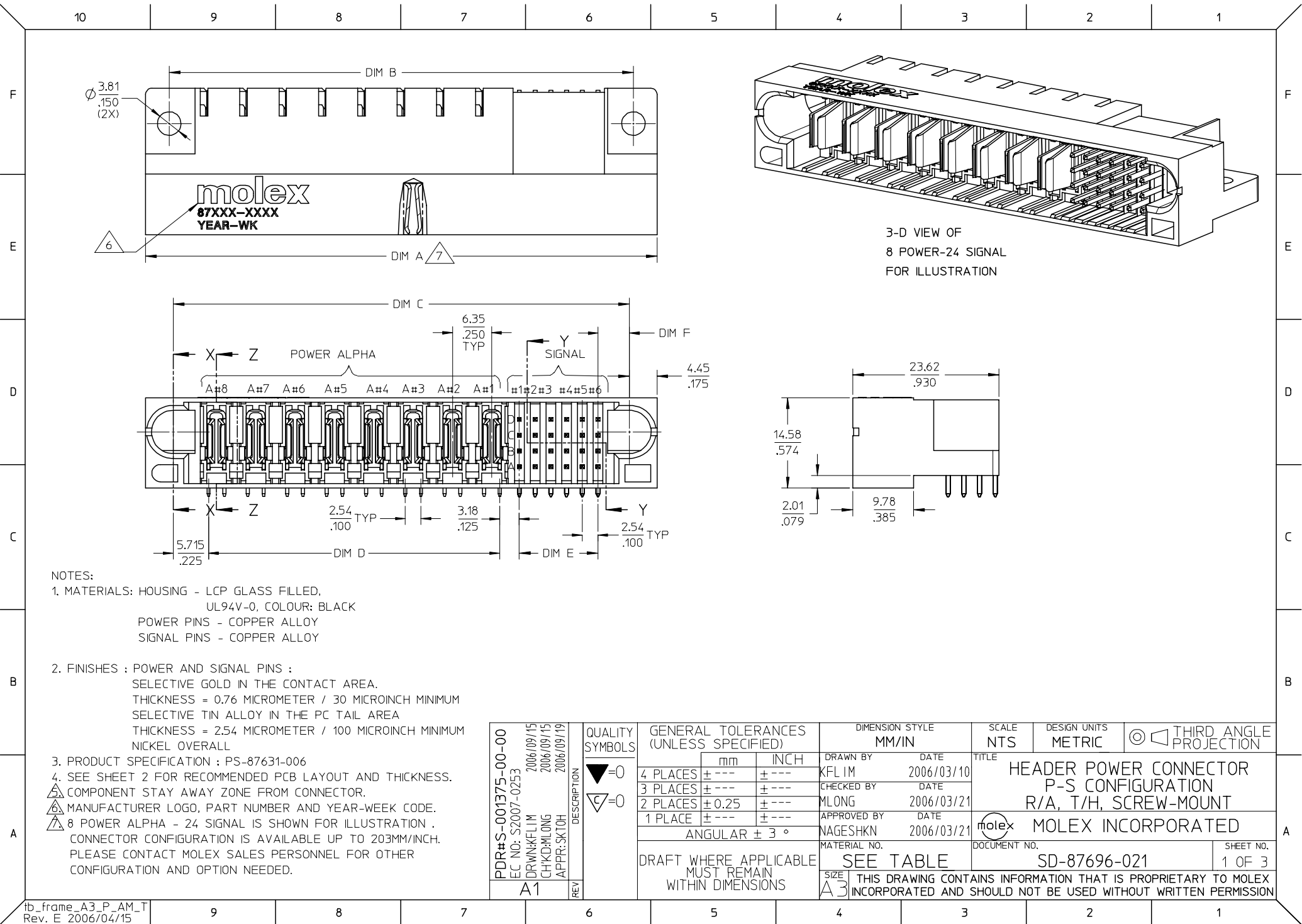
Material Info

Reference - Drawing Numbers

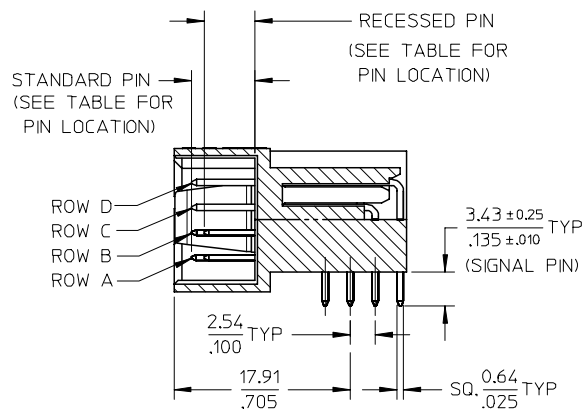
Product Specification	PS-87631-006
Sales Drawing	SD-87696-021

This document was generated on 05/25/2010

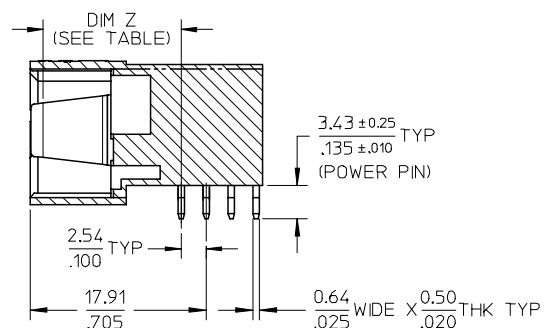
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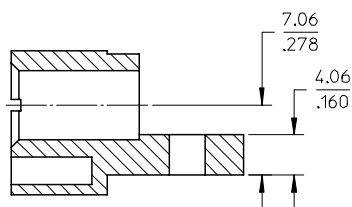
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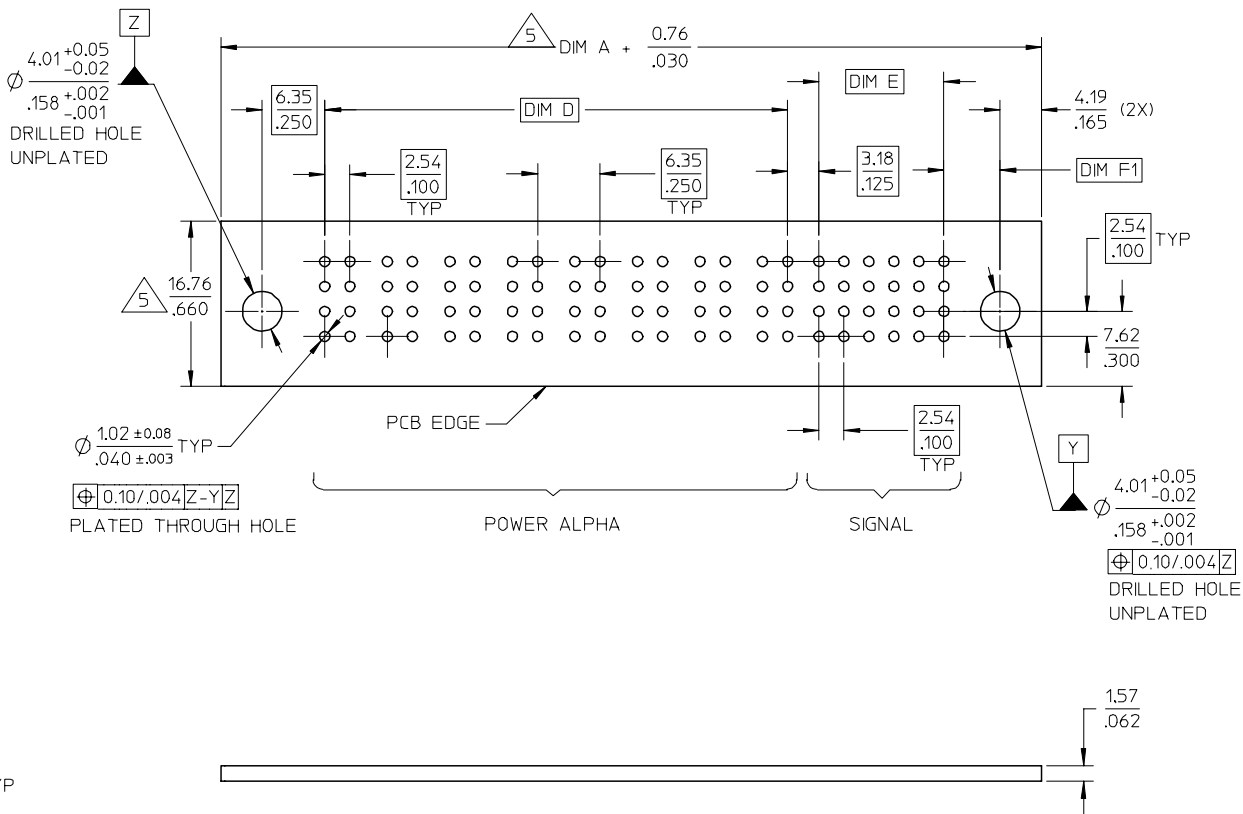
SECTION Y-Y



SECTION Z-Z



SECTION X-X



PDR#S-001375-00-00 EC NO: S2007-0253 DRWN:KFLIM 2006/09/15 CHKD:M LONG 2006/09/15 APPR:SKTOH 2006/09/19 A1				DESCRIPTION QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY KFL IM	DATE 2006/03/10	TITLE HEADER POWER CONNECTOR P-S CONFIGURATION R/A, T/H, SCREW-MOUNT				
							CHECKED BY	DATE					
							MLONG	2006/03/21					
							APPROVED BY NAGESHKN	DATE 2006/03/21	molex		MOLEX INCORPORATED		
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO. 2 OF 3		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87696-021					
						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			PACKAGING					
		POWER ALPHA	SIGNAL								TYPE	DIM Z ±0.13/.005	ROW	COLUMN	LENGTH	ROW	COLUMN	LENGTH						
	87696-3010	8	28	85.09 3.35	77.47 3.05	76.20 3.00	46.99 1.85	15.24 .600	5.08 .200	5.72 .225	LONG CONTACT	14.12/.556	D	NIL	6.86/.270	D	1-7	5.59/.220			TRAY			
													C	NIL		C	1-7							
													B	NIL		B	1-7							
										A			1,2,3,4	A		5,6,7								
87696-3012	2	24	44.45 1.75	36.83 1.45	35.56 1.40	8.89 0.35	12.70 .500	5.08 .200	5.72 .225			D	1-6		D	NIL								
													C	1,3,4,5,6		C	2							
													B	1-6		B	NIL							
													A	1-6		A	NIL							
E																							E	
D																							D	
C																							C	
B																							B	
A																							A	
PDR#S-001375-00-00		EC NO: S2007-0253		2006/09/15		2006/09/15		2006/09/19		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION				
DRAWN:KFLIM		2006/09/15		2006/09/15		2006/09/19		2006/09/19		▽=0		4 PLACES ± --- ± ---		DRAWN BY KFLIM DATE 2006/03/10		TITLE		HEADER POWER CONNECTOR						
CHKD:MLONG		2006/09/15		2006/09/15		2006/09/19		2006/09/19		▽=0		3 PLACES ± --- ± ---		CHECKED BY MLONG DATE 2006/03/21				P-S CONFIGURATION						
APPR:SKTOH		2006/09/15		2006/09/15		2006/09/19		2006/09/19				2 PLACES ± 0.25 ± ---		APPROVED BY NAGESHKN DATE 2006/03/21				R/A, T/H, SCREW-MOUNT						
												1 PLACE ± --- ± ---						MOLEX INCORPORATED						
												ANGULAR ± 3 °												
												DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.						SHEET NO.				
														SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				3 OF 3				
ib_frame_A3_P_AM_T		9		8		7		6		5		4		3		2		1						
Rev. E 2006/04/15																								

PDR#S-001375-00-00 EC NO: S2007-0253 DRWN:KFLIM 2006/09/15 CHKD:MLONG 2006/09/15 APPR:SKTOH 2006/09/19	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		=0 =0		mm	INCH	DRAWN BY	DATE	TITLE HEADER POWER CONNECTOR P-S CONFIGURATION R/A, T/H, SCREW-MOUNT			
			4 PLACES	± ---	± ---	KFLIM	2006/03/10				
			3 PLACES	± ---	± ---	CHECKED BY	DATE				
			2 PLACES	± 0.25	± ---	MLONG	2006/03/21				
A1	REV		1 PLACE	± ---	± ---	APPROVED BY	DATE	MOLEX INCORPORATED			
		ANGULAR ± 3 °			NAGESHKN	2006/03/21					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					SEE TABLE		SD-87696-021		3 OF 3		
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					