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Part Number:

0876639000

Status:

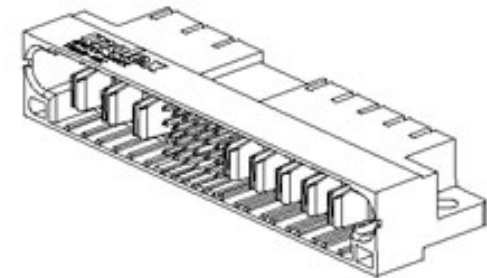
Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch Power (DC), 7.62mm (.300") Pitch Power (AC), 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ Board-to-Board Header, Through Hole, Right Angle, 32 Circuits, Power Alpha 3, Signal 24, Power Beta 5, Short Contact, with Bevel



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-87663-006 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	87663
Application	Board-to-Board
Comments	Short BladeRecessed Signal Pins : A3, B6, C3, D5
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	32
Circuits Detail	Power Alpha 3, Signal 24, Power Beta 5
Color - Resin	Black
First Mate / Last Break	Yes
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying 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	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, 0.300 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm, 7.62 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
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-20°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
87663Series

Mates With
87664 PCB Receptacle with Beveled Metal Pins. 87734 Vertical PCB Receptacle

Electrical

Current - Maximum per Contact	2.5A, 30A, 50A
Voltage - Maximum	250V

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

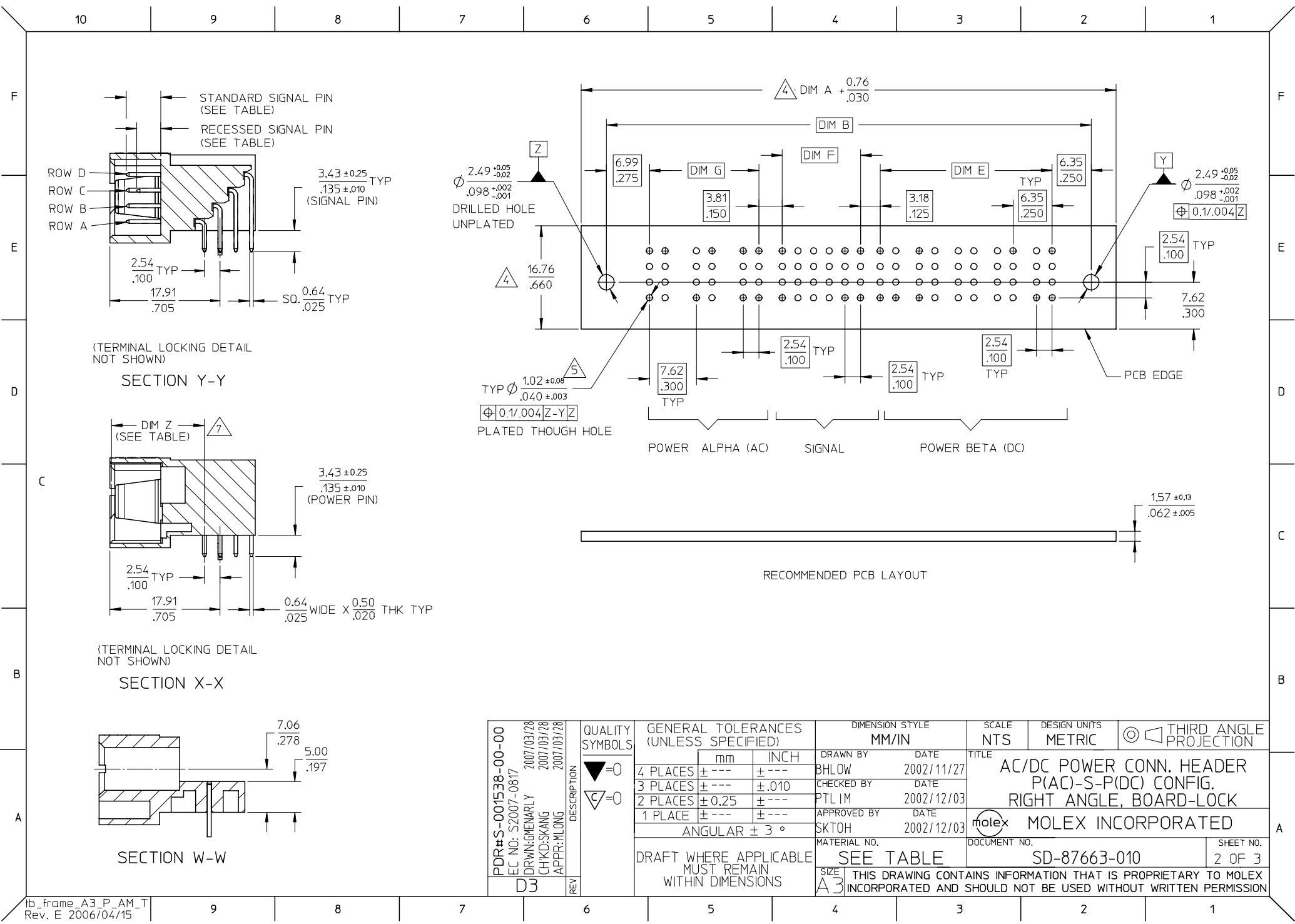
Material Info

Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87663-006
Sales Drawing	SD-87663-010

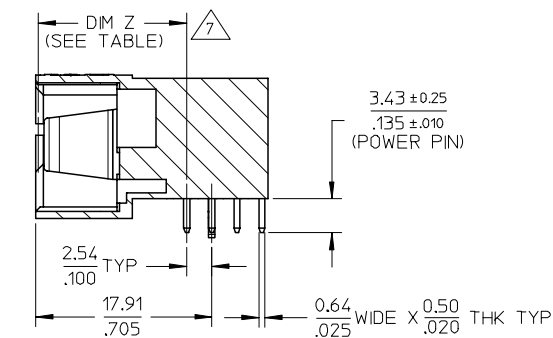
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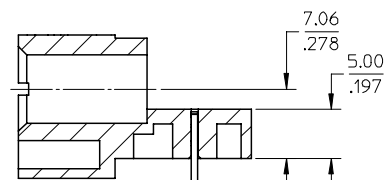
(TERMINAL LOCKING DETAIL NOT SHOWN)

SECTION Y-Y

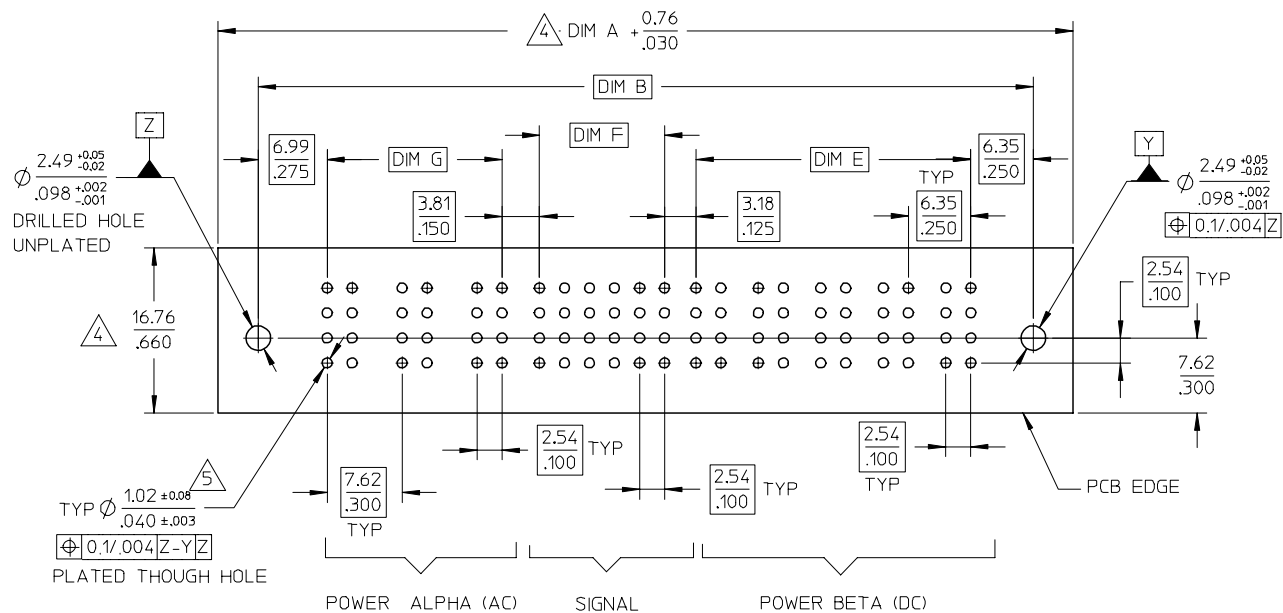


(TERMINAL LOCKING DETAIL NOT SHOWN)

SECTION X-X



SECTION W-W



RECOMMENDED PCB LAYOUT

PDR#S-001538-00-00			QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																						
EC NO: S2007-0817 DRAWN: GEMARLY CHKD: SKANG APPR: MLONG	2007/03/28 2007/03/28 2007/03/28	DESCRIPTION D3		REV	<table><tr><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± --- ± ---</td></tr><tr><td>3 PLACES</td><td>± --- ± .010</td></tr><tr><td>2 PLACES</td><td>± 0.25 ± ---</td></tr><tr><td>1 PLACE</td><td>± --- ± ---</td></tr><tr><td colspan="2">ANGULAR ± 3 °</td></tr></table>	mm	INCH	4 PLACES	± --- ± ---	3 PLACES	± --- ± .010	2 PLACES	± 0.25 ± ---	1 PLACE	± --- ± ---	ANGULAR ± 3 °		<table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>BHLOW</td><td>2002/11/27</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>PTL IM</td><td>2002/12/03</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>SKTOH</td><td>2002/12/03</td></tr></table>	DRAWN BY	DATE	BHLOW	2002/11/27	CHECKED BY	DATE	PTL IM	2002/12/03	APPROVED BY	DATE	SKTOH	2002/12/03	TITLE AC/DC POWER CONN. HEADER P(AC)-S-P(DC) CONFIG. RIGHT ANGLE, BOARD-LOCK	
					mm	INCH																										
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SKTOH	2002/12/03																															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87663-010		SHEET NO. 2 OF 3																										
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-P CONFIGURATION			DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	POWER BLADE OPTIONS			STANDARD PIN			RECESSED PIN			VOID PIN LOCATION		PACKAGING	F
		POWER ALPHA AC	SIGNAL	POWER BETA DC								TYPE	DIM Z ±0.13/.005	LOCATION	ROW	COLUMN	LENGTH	ROW	COLUMN	LENGTH	ROW	COLUMN		
87663-9000	3	24	5	86.36 3.400	78.74 3.100	77.47 3.050	62.88 2.475	27.94 1.100	12.70 .500	17.78 .700	SHORT CONTACT	13.32/.524	ALL	D C B A	1,2,3,4,6 1,2,4,5,6 1,2,3,4,5 1,2,4,5,6	5.59/.220	D C B A	5 3 6 3	4.32/.170	D C B A	NIL	TRAY		
87663-9001	3	24	6	92.71 3.650	85.09 3.350	83.82 3.300	69.22 2.725	34.29 1.350	12.70 .500	17.78 .700	LONG CONTACT	14.12/.556	ALL	D C B A	1 - 6 1 - 6 1 - 6 2,3,4,5,6	6.86/.270	D C B A	- - - 1	5.59/.220	D C B A	NIL	TRAY		
87663-9002	3	24	4	80.01 3.150	72.39 2.850	71.12 2.800	56.52 2.225	21.59 .850	12.70 .500	17.78 .700	LONG CONTACT	14.12/.556	ALL	D C B A	1 - 6 1 - 6 1,2,3,5,6 1 - 6	6.45/.254	D C B A	- - 4 -	5.18/.204	D C B A	NIL	TRAY		
E	87663-9003	3	24	5	86.36 3.400	78.74 3.100	77.47 3.050	62.88 2.475	27.94 1.100	12.70 .500	17.78 .700	LONG CONTACT	14.12/.556	ALL	D C B A	1,2,3,4,6 1,2,4,5,6 1,2,3,4,5 1,2,4,5,6	6.86/.270	D C B A	5 3 6 3	5.59/.220	D C B A	NIL	TRAY	E
	87663-9004	3	24	2	67.31 2.650	59.69 2.350	58.42 2.300	43.82 1.725	8.890 0.350	12.70 .500	17.78 .700	LONG CONTACT	14.12/.556	ALL	D C B A	1,2,4,5,6 1 - 6 1,2,4,5,6 1 - 6	6.86/.270	D C B A	3 - 3 -	5.59/.220	D C B A	NIL	TRAY	
D	87663-9005	4	16	4	82.55 3.250	74.93 2.950	73.66 2.900	59.06 2.325	21.59 0.850	7.62 .300	25.40 1.000	LONG CONTACT	14.12/.556	ALL	D C B A	ALL	6.86/.270	D C B A	NIL	NIL	D C B A	NIL	TRAY	D
	87663-9006	3	24	5	86.36 3.400	78.74 3.100	77.47 3.050	62.88 2.475	27.94 1.100	12.70 .500	17.78 .700	LONG CONTACT	14.12/.556	ALL	D C B A	4,5,6 4,5,6 4,5,6 4,5,6	6.86/.270	D C B A	NIL	NIL	D C B A	1,2,3 1,2,3 1,2,3 1,2,3	TRAY	
	87663-9007	4	16	6	95.25 3.750	87.63 3.450	86.36 3.400	71.76 2.825	34.29 1.350	7.62 .300	25.40 1.000	LONG CONTACT	14.12/.556	ALL	D C B A	ALL	6.86/.270	D C B A	NIL	NIL	D C B A	NIL	TRAY	
C																							C	
B																							B	
A																							A	
<div><div>PDR#S-001538-00-00 EC NO: S2007-0817 DRAWN: GWENARLY CHKD: SKANG APPR: MLONG</div><div>2007/03/28 2007/03/28 2007/03/28</div><div>DESCRIPTION REV</div><div>QUALITY SYMBOLS =0 =0</div><div>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</div><div><div>DIMENSION STYLE MM/IN DRAWN BY DATE BHLOW 2002/11/27 CHECKED BY DATE PTL IM 2002/12/03 APPROVED BY DATE SKT0H 2002/12/03 MATERIAL NO. SEE TABLE SIZE A3</div><div>SCALE NTS DESIGN UNITS METRIC TITLE AC/DC POWER CONN. HEADER P(AC)-S-P(DC) CONFIG. RIGHT ANGLE, BOARD-LOCK MOLEX INCORPORATED DOCUMENT NO. SD-87663-010 SHEET NO. 3 OF 3</div></div><div>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</div></div>																								