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Part Number:

0876675005

Status:

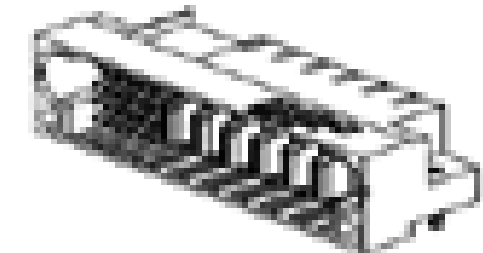
Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ S-Pb Header, Through Hole, Right Angle, with Beveled Metal Pins, Long Blade, 24 Circuits, Signal 20, Power Beta 4, No Recessed Signal Pin, Lead-free



Series

image - Reference only

Documents:

- [3D Model](#)
- [Drawing \(PDF\)](#)
- [Product Specification PS-87631-006 \(PDF\)](#)
- [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family	PCB Headers
Series	87667
Application	Board-to-Board
Comments	Long BladeNo Recessed Signal Pin
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	24
Circuits Detail	Signal 20 Power Beta 4
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
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	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, 0.150 In, 0.250 In
Pitch - Term. Interface (mm)	2.54 mm, 3.18 mm, 3.81 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
Shrouded	Fully
Stackable	No

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

87667Series

Mates With

87668 EXTreme PowerPlus™ S-Pb
Receptacles with Beveled Metal Pins. 87710
EXTreme PowerPlus™ S-Pb Receptacles
with Press-fit PC Tail

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

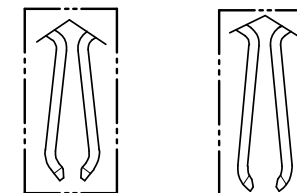
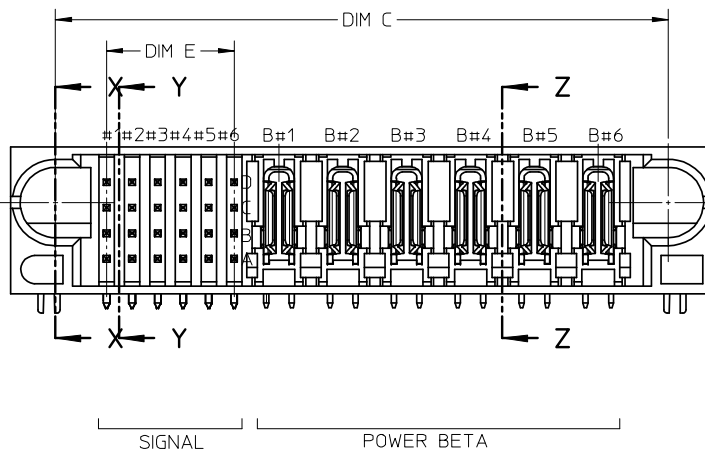
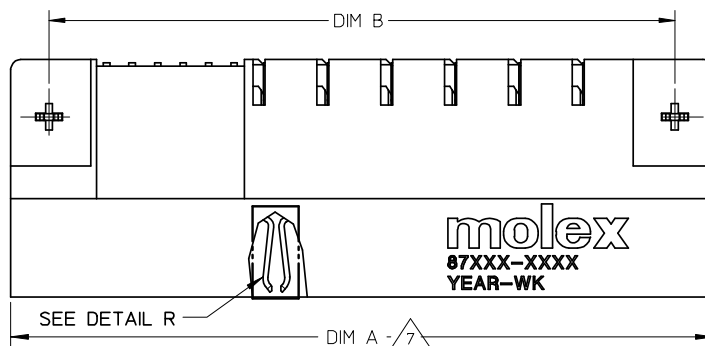
Material Info

Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87667-013

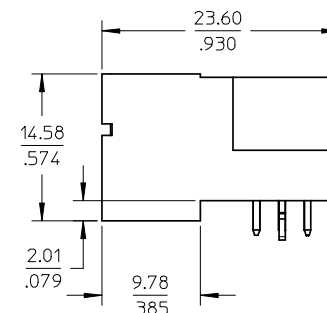
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SHORT BLADE OPTION LONG BLADE OPTION

DETAIL R
(SEE TABLE FOR BLADE OPTION)

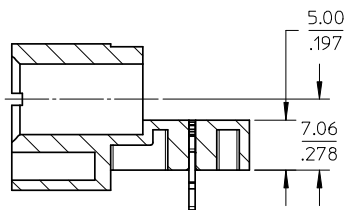


NOTES:

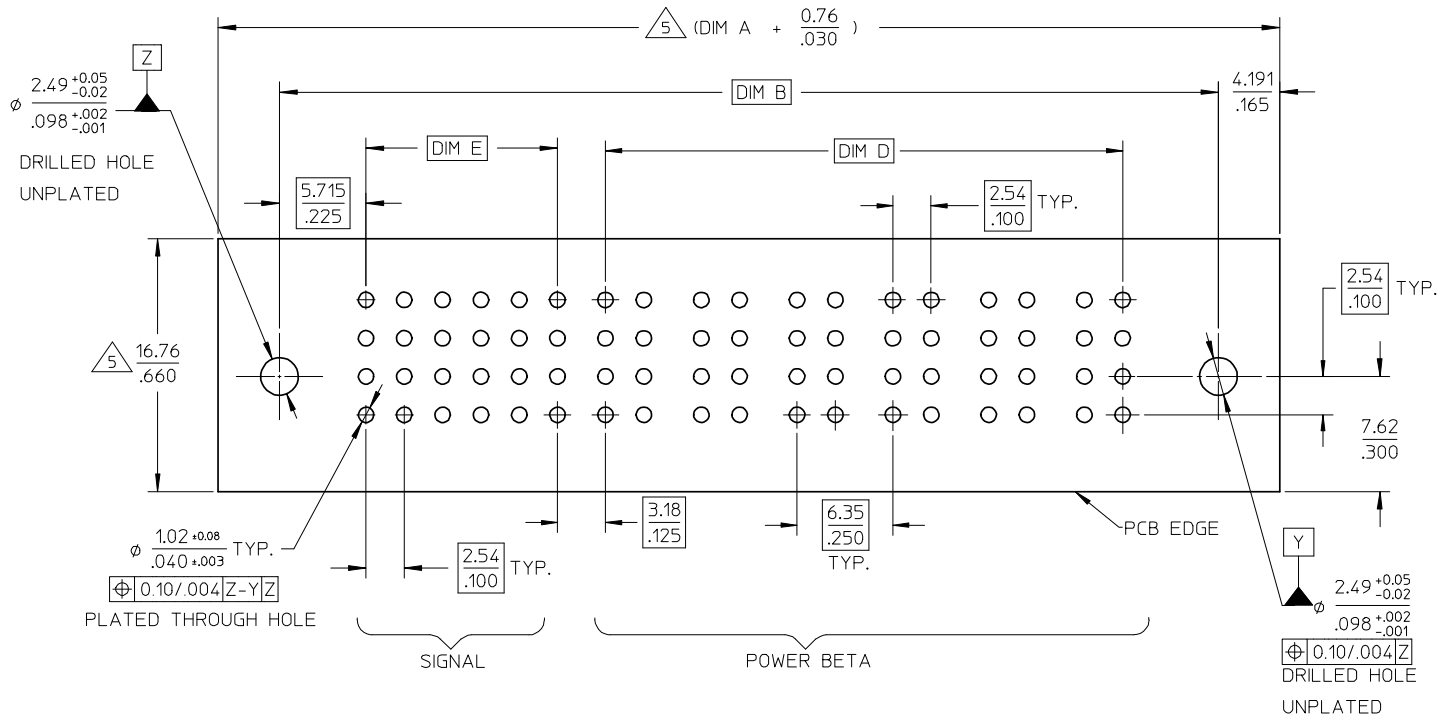
- 1 MATERIALS : HOUSING - LCP, GLASS FILLED, UL94V-0, COLOR: BLACK
POWER PINS - COPPER ALLOY
SIGNAL PINS - COPPER ALLOY
BOARD LOCK - COPPER ALLOY
- 2 FINISHES: POWER AD SIGNAL PINS
SELECTIVE GOLD IN THE CONTACT AREA
THICKNESS = 0.76 MICROMETER / 30 MICROINCH MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA
THICKNESS = 2.54 MICROMETER / 100 MICROINCH MINIMUM
1.27um MINIMUM NICKEL OVERALL UNDERPLATE.
- 3 PRODUCT SPECIFICATIONS : PS-87631-006
- 4 SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT AND THICKNESS
- 5 COMPONENT STAY AWAY ZONE FROM CONNECTOR
- 6 REFER TO THE TABLE ON TOP OF PAGE 3/3 FOR RECESSED PINS LOCATION
- 7 24 SIGNAL - 6 POWER CONNECTOR IS SHOWN FOR ILLUSTRATION

PDR#S-001742-00-00 EC NO: S2008-0558 DRWN:SKANG CHKD:ATSEE APPR:MLONG REV D5			QUALITY SYMBOLS =0 =0 DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
		mm		INCH	DRAWN BY BHLOW	DATE 2002/10/28	TITLE POWER CONNECTOR PLUG S-P(B) CONFIGURATION R/A, T/H, BOARD-LOCK				
		4 PLACES		± ---	± ---	CHECKED BY					DATE
		3 PLACES		± ---	± .010	PTLIM					2002/11/07
		2 PLACES		± 0.25	± ---	APPROVED BY					DATE
		1 PLACE		± ---	± ---	SKTOH	2002/11/12	 MOLEX INCORPORATED			
		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.			SHEET NO.		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87667-013			1 OF 3		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

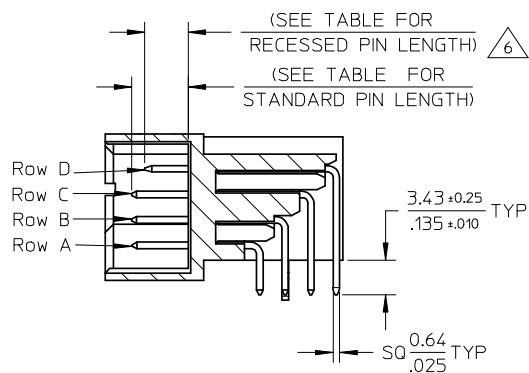
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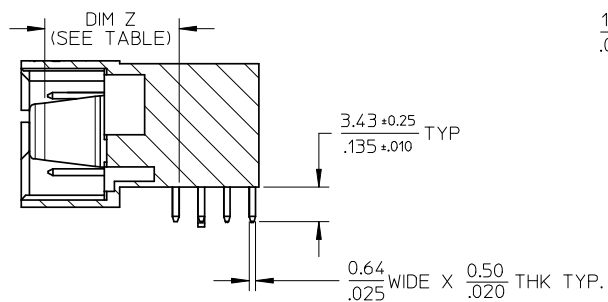
SECTION X-X



RECOMMENDED PCB LAYOUT



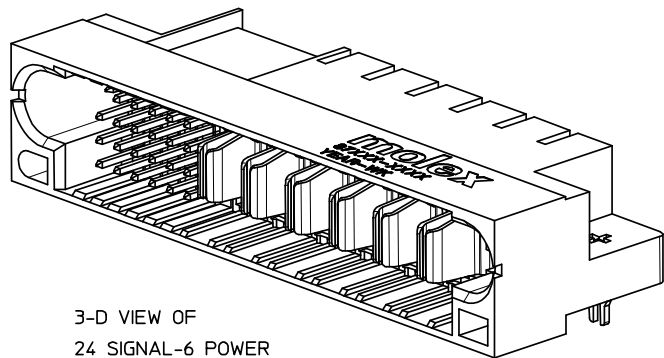
SECTION Y-Y



SECTION Z-Z

PDR#S-001742-00-00 EC NO: S2008-0558 DRWNSKANG CHKD:ATSEE APPR:MLONG REV D5	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 BHLOW	DATE 2002/10/28	TITLE POWER CONNECTOR PLUG S-P(B) CONFIGURATION R/A, T/H, BOARD-LOCK				
			4 PLACES	± ---	± ---	CHECKED BY PTLIM	DATE 2002/11/07	MOLEX MOLEX INCORPORATED				
			3 PLACES	± ---	± .010							
			2 PLACES	± 0.25	± ---							
			1 PLACE	± ---	± ---	APPROVED BY SKTOH	DATE 2002/11/12					
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87667-013		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	
	PART NUMBER	S-P CONFIGURATION		DIM A	DIM B	DIM C	DIM D	DIM E	POWER BLADE OPTIONS		STANDARD SIGNAL	RECESS SIGNAL			VOID PIN LOCATION	PACKAGING				
		SIGNAL	POWER BETA						TYPE	DIM Z±0.13/.005		PIN LENGTH	PIN LENGTH	LOCATION						
F	87667-5001	24	14	120.65 4.750	113.03 4.450	111.76 4.400	85.09 3.350	12.70 .500	SHORT CONTACT	13.32/.524	5.59/.220	4.32/.170	NIL	NIL	TRAY					
	87667-5002	24	6	69.85 2.750	62.23 2.450	60.96 2.400	34.29 1.350	12.70 .500	SHORT CONTACT	13.32/.524	5.59/.220	4.32/.170	NIL	NIL	TRAY					
	87667-5003	24	6	69.85 2.750	62.23 2.450	60.96 2.400	34.29 1.350	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	A1,A2, B1,B2, C1,C2, D1,D2	NIL	TRAY					
	87667-5004	24	10	95.25 3.750	87.63 3.450	86.36 3.400	59.69 2.350	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	NIL	NIL	TRAY					
	87667-5005	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 .850	10.16 .400	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	NIL	NIL	TRAY					
E	87667-5006	24	6	69.85 2.750	62.23 2.450	60.96 2.400	34.29 1.350	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	NIL	NIL	TRAY					
	87667-5010	24	4	57.15 2.250	49.53 1.950	48.26 1.900	21.59 .850	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	NIL	NIL	TRAY					
	87667-5011	12	10	87.63 3.45	80.01 3.150	78.74 3.100	59.69 2.350	5.08 .200	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	NIL	NIL	TRAY					
D	87667-5013	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 .850	10.16 .400	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	A1,A5	A4,B4,C4,D4	TRAY					
	87667-5014	32	14	125.73 4.950	118.11 4.650	116.84 4.600	85.09 3.350	17.78 .700	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	C1 TO C8 D1 TO D8	NIL	TRAY					
	87667-5015	24	10	95.25 3.750	87.63 3.450	86.36 3.400	59.69 2.350	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	A1,B5,C5	NIL	TRAY					
	87667-5016	24	4	57.15 2.250	49.53 1.950	48.26 1.900	21.59 .850	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	D6	NIL	TRAY					
	87667-5017	24	6	69.85 2.750	62.23 2.450	60.96 2.400	34.29 1.350	12.70 .500	LONG CONTACT	14.12/.556	6.86/.270	5.59/.220	C4	NIL	TRAY					



3-D VIEW OF
24 SIGNAL-6 POWER
FOR ILLUSTRATION

PDR#S-001742-00-00 EC NO: S2008-0558 DRW:SKANG CHKD:ATSEE APPR:MLONG REV D5		2008/01/14 2008/01/14 2008/01/14		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 °		DIMENSION STYLE MM/IN DRAWN BY BLOW DATE 2002/10/28 CHECKED BY PTL IM DATE 2002/11/07 APPROVED BY SKTOH DATE 2002/11/12 MATERIAL NO. SEE TABLE		SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION		TITLE POWER CONNECTOR PLUG S-P(B) CONFIGURATION R/A, T/H, BOARD-LOCK MOLEX INCORPORATED SD-87667-013		SHEET NO. 3 OF 3	
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