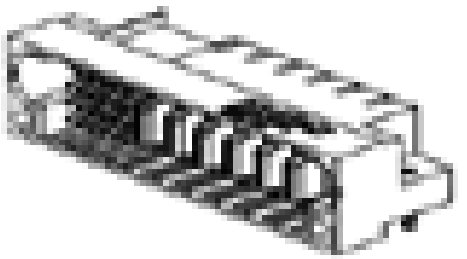
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PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0876675015
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, 34 Circuits, Signal 24, Power Beta 10, Recessed Signal Pins: A1, B5, C5, 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	<LI>Long Blade|<LI>Recessed Signal Pin: A1, B5, C5
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	34
Circuits Detail	Signal 24|Power Beta 10
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	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	Closed Ends
Stackable	No
Temperature Range - Operating	-20°C to +105°C

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

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

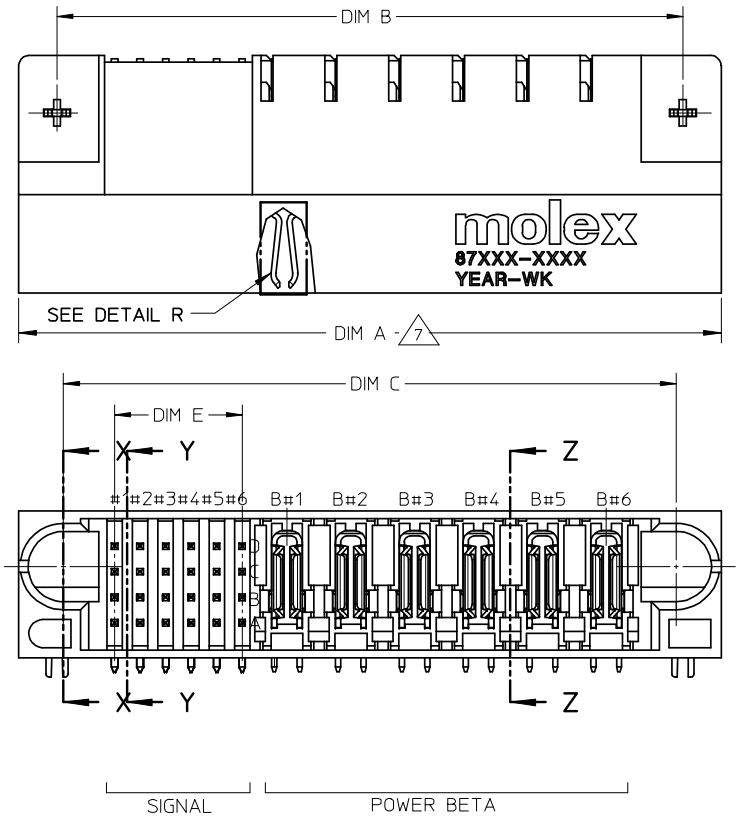
Material Info

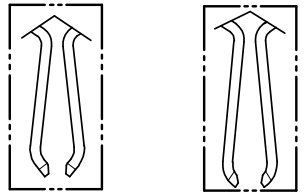
Reference - Drawing Numbers

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

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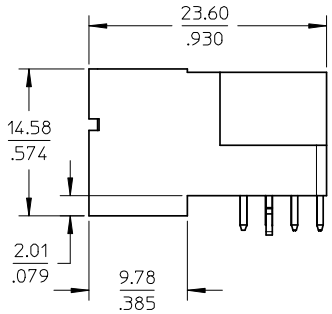




SHORT BLADE OPTION LONG BLADE OPTION

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 2008/01/14
DRWN:SKANG 2008/01/14
CH'KD:ATSEE 2008/01/14
APPR:MLONG 2008/01/14
DESCRIPTION
D5
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

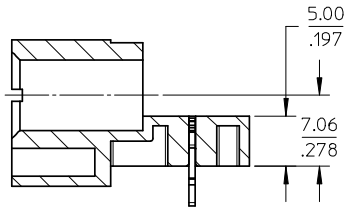
DRAWN BY: BHLOW DATE: 2002/10/28
CHECKED BY: PTLIM DATE: 2002/11/07
APPROVED BY: SKTOH DATE: 2002/11/12

TITLE: POWER CONNECTOR PLUG S-P(B) CONFIGURATION R/A, T/H, BOARD-LOCK

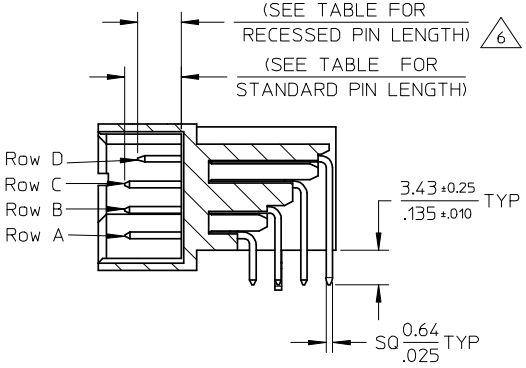
MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87667-013
SHEET NO.: 1 OF 3
SIZE: A3

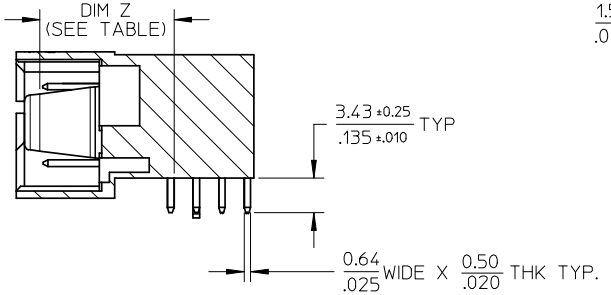
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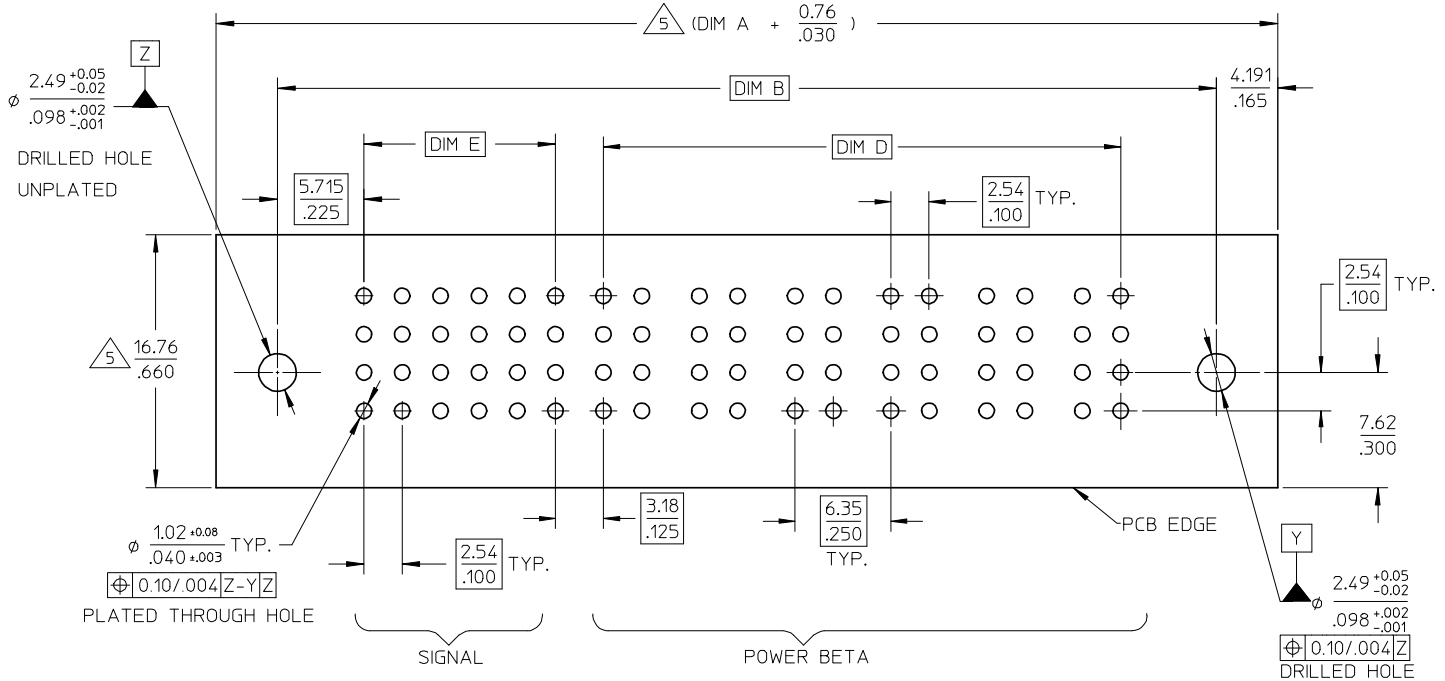
SECTION X-X

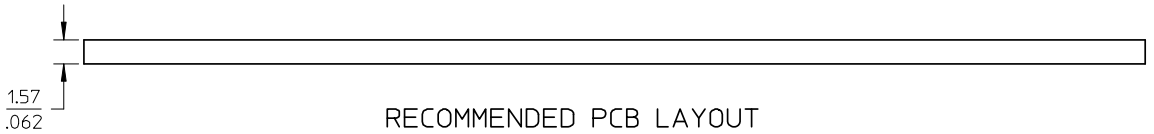


SECTION Y-Y



SECTION Z-Z





RECOMMENDED PCB LAYOUT

PDR#S-001742-00-00	2008/01/14	DESCRIPTION
EC NO: S2008-0558	2008/01/14	
DRWN:SKANG	2008/01/14	
CH'KD:ATSEE	2008/01/14	
APPR:MLONG	2008/01/14	
D5		REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

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

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	BHLOW
DATE	2002/10/28
CHECKED BY	PTLIM
DATE	2002/11/07
APPROVED BY	SKTOH
DATE	2002/11/12

TITLE: POWER CONNECTOR PLUG S-P(B) CONFIGURATION R/A, T/H, BOARD-LOCK

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE

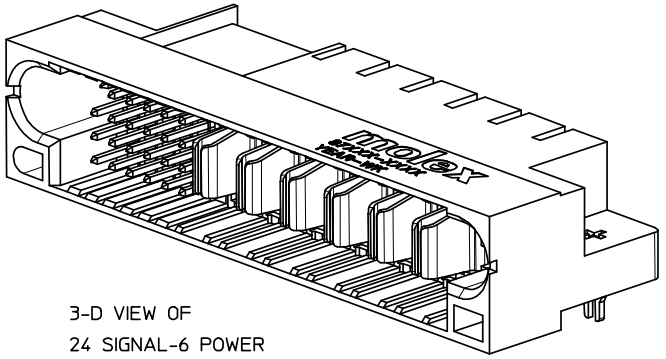
DOCUMENT NO.: SD-87667-013

SHEET NO.: 2 OF 3

SIZE: A3

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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		
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
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
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
DRWN:SKANG 2008/01/14
CH'KD:ATSEE 2008/01/14
APPR:MLONG 2008/01/14
DESCRIPTION
D5
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: BHLOW DATE: 2002/10/28
CHECKED BY: PTLIM DATE: 2002/11/07
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87667-013
SHEET NO.: 3 OF 3
SIZE: A3

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