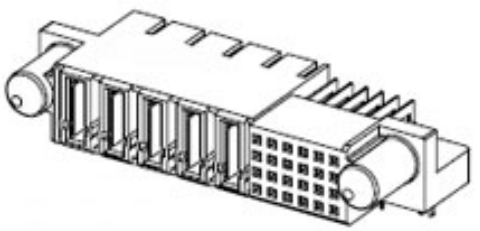
This document was generated on 05/21/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0876682004
Status: Active
Overview: extreme_powerplus_ssi
Description: 6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ S-Pb Receptacle, Through Hole, Right Angle, Beveled Metal Pins, 0.76µm (30µ") Gold (Au) Plating, 30 Circuits, Signal 24, Power Beta 6, No Void Pin, Leadfree



Series image - Reference only

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Receptacles
Series	87668
Application	Board-to-Board
Comments	<LI>Void Signal Pin: Nil
Overview	extreme_powerplus_ssi
Product Literature Order No	987650-3002
Product Name	EXTreme PowerPlus™

Physical

Circuits (Loaded)	30
Circuits Detail	Signal 24, Power Beta 6
Color - Resin	Black
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Mated Height (in)	0.495 In
Mated Height (mm)	12.57 mm
Material - Metal	High Performance Alloy (HPA), Phosphor Bronze
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)	1.60 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.100 In, 0.250 In
Pitch - Mating Interface (mm)	2.54 mm, 6.35 mm
Plating min: Mating (µin)	30.4
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

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
87668Series

Mates With
87667 EXTreme PowerPlus™ Right Angle S-Pb Header

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

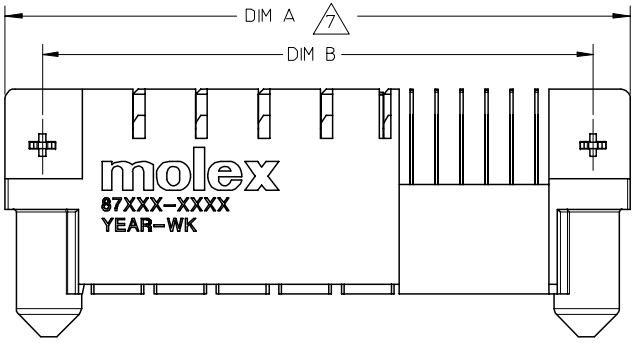
Material Info

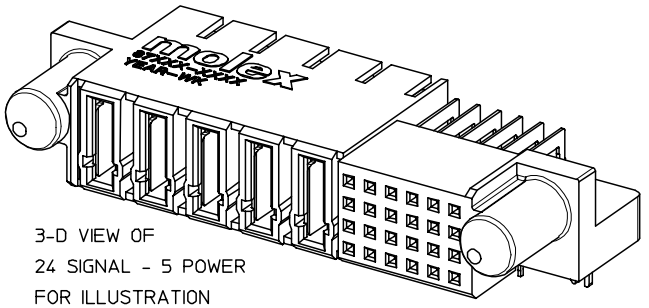
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87668-014

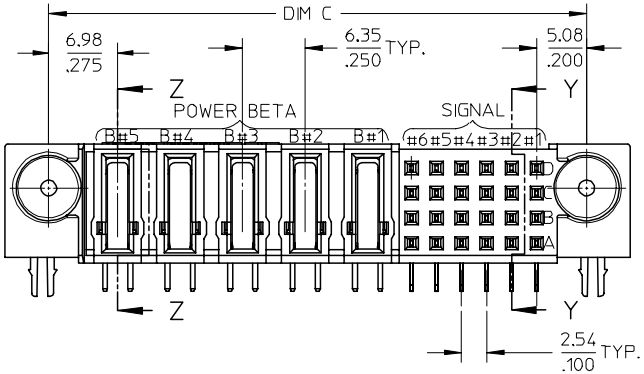
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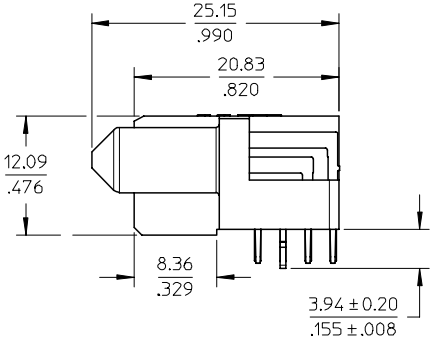
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

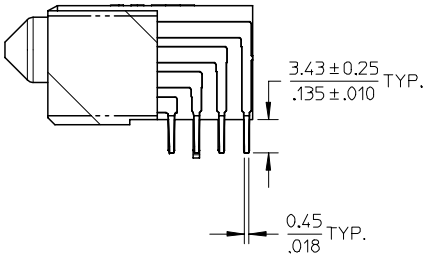




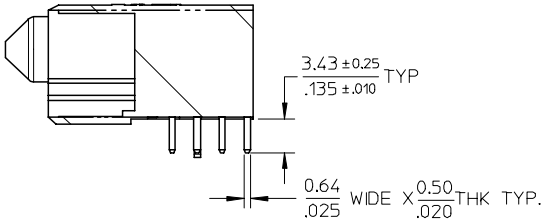
3-D VIEW OF
24 SIGNAL - 5 POWER
FOR ILLUSTRATION







SECTION Y-Y



SECTION Z-Z

PDR#S-001243-00-00		
EC NO: S2006-1028		
DRWN:KFLIM	2006/05/09	
CHKD:MLONG	2006/05/09	
APPR:PTLIM	2006/05/10	
DESCRIPTION		
REV	D1	

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

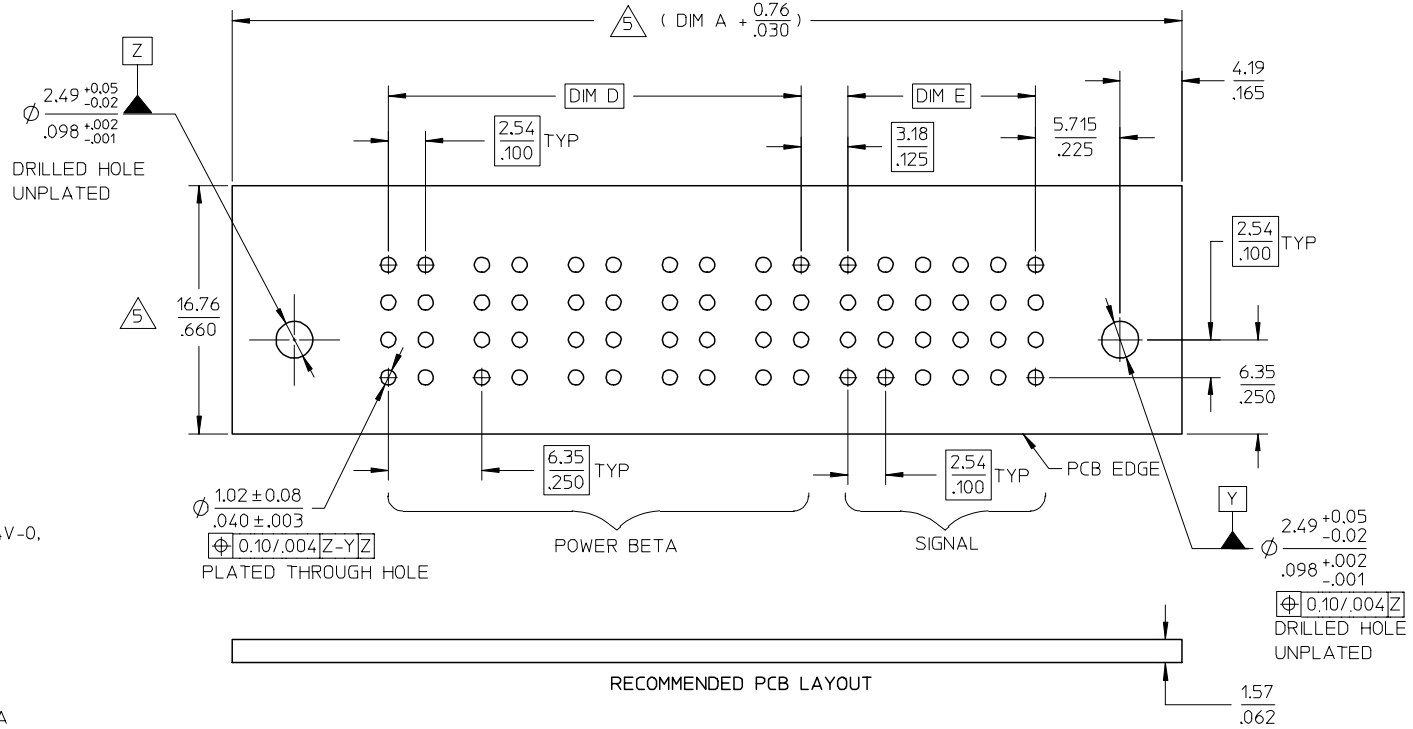
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM/IN
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	KMGOH
DATE	2003/06/18
CHECKED BY	PTLIM
DATE	2003/06/20
APPROVED BY	SKTOH
DATE	2003/06/20
TITLE	POWER CONNECTOR RECEPT. S-P(B) CONFIGURATION R/A, BOARDLOCK
	MOLEX INCORPORATED
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-87668-014
SHEET NO.	1 OF 2
SIZE	A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PART NUMBER	S-P CONFIGURATION		DIM A	DIM B	DIM C	DIM D	DIM E	VOID PIN LOCATION	PACKAGING	STATUS
	SIGNAL	POWER BETA								
87668-2002	24	10	95.25 3.750	87.63 3.450	86.36 3.400	59.69 2.350	12.70 .500	NIL	TRAY	TOOLED
87668-2003	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 .850	10.16 .400	NIL	TRAY	TOOLED
87668-2004	24	6	69.85 2.750	62.24 2.450	60.96 2.400	34.29 1.350	12.70 .500	NIL	TRAY	TOOLED
87668-2006	24	12	107.95 4.250	100.33 3.950	99.06 3.900	72.39 2.850	12.70 .500	NIL	TRAY	TOOLED
87668-2007	20	4	54.61 2.150	46.99 1.850	45.72 1.800	21.59 0.850	10.16 0.400	A4,B4,C4,D4	TRAY	TOOLED



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
NICKEL OVERALL

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 IN PAGE 3 FOR RECESSED PINS LOCATION

7 24 SIGNAL - 5 POWER CONNECTOR IS SHOWN FOR ILLUSTRATION

PDR#S-001243-00-00 EC NO: S2006-1028 2006/05/09
DRWN:KFLIM 2006/05/09
CHKD:MLONG 2006/05/10
APPR:PTLIM
DESCRIPTION
REV D1

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: KMGOH DATE: 2003/06/18
CHECKED BY: PTLIM DATE: 2003/06/20
APPROVED BY: SKTOH DATE: 2003/06/20

TITLE: POWER CONNECTOR RECEPT. S-P(B) CONFIGURATION R/A, BOARDLOCK

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87668-014
SHEET NO.: 2 OF 2
SIZE: A3

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