

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876323001

Status:

Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ P-S-P Receptacle, Through Hole, Right Angle, with Beveled Metal Pins, 30 Circuits, Power Beta 4, Signal 20, Power Alpha 6, Leadfree

Documents:

3D Model

Drawing (PDF)

Product Specification PS-87631-006 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family

Series

Application

Comments

Overview

Product Name

PCB Receptacles

87632

Board-to-Board

No Recessed Power Circuits

extreme_powerplus_ssi

EXTreme PowerPlus™

Physical

Circuits (Loaded)

Circuits Detail

Color - Resin

Durability (mating cycles max)

Glow-Wire Compliant

Guide to Mating Part

Keying to Mating Part

Lock to Mating Part

Material - Metal

Material - Plating Mating

Material - Plating Termination

Material - Resin

Number of Rows

Orientation

PC Tail Length (in)

PC Tail Length (mm)

PCB Locator

PCB Retention

Packaging Type

Pitch - Mating Interface (in)

Pitch - Mating Interface (mm)

Plating min: Mating (µin)

Plating min: Mating (µm)

Plating min: Termination (µin)

Plating min: Termination (µm)

Polarized to Mating Part

Polarized to PCB

Stackable

Temperature Range - Operating

Termination Interface: Style

30

Power Beta 4, Signal 20, Power Alpha 6

Black

100

No

Yes

Yes

Yes

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

4

Right Angle

0.135 In

3.43 mm

No

Yes

Tray

0.100 In, 0.250 In

2.54 mm, 6.35 mm

30

0.76

100

2.54

Yes

Yes

No

-20°C to +105°C

Through Hole

Electrical

Current - Maximum per Contact

Voltage - Maximum

2.5A, 30A, 50A

250V DC

Solder Process Data

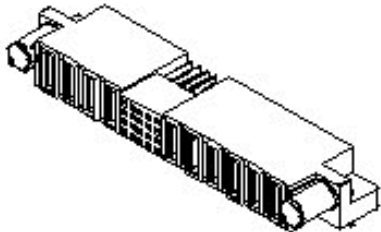


image - Reference only

Series

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

87632Series

Mates With

87631 EXTreme PowerPlus™ P-S-P Header

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

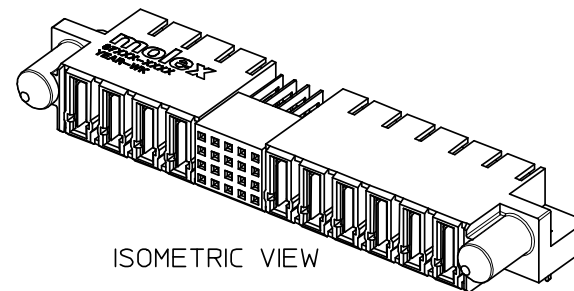
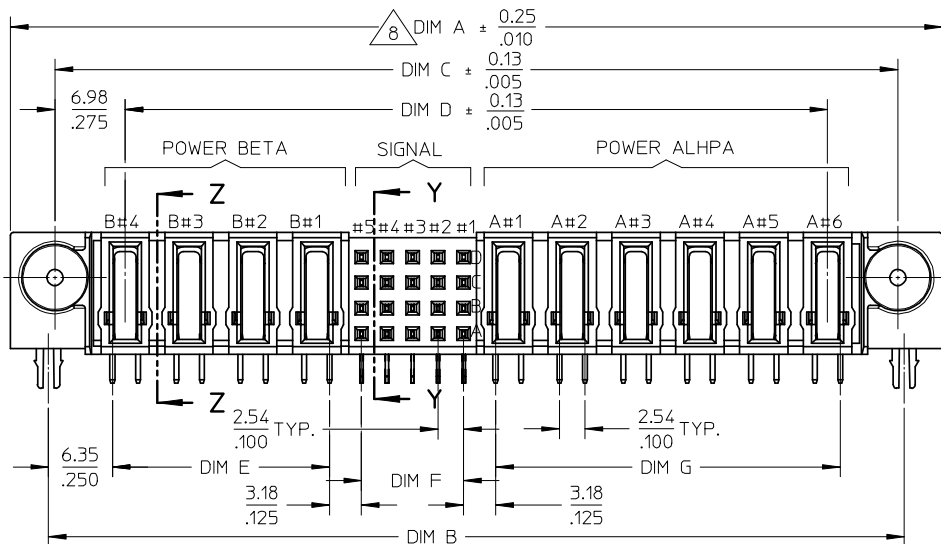
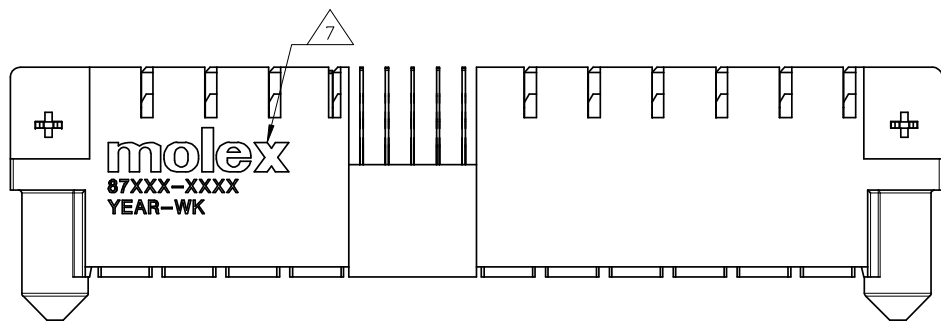
Material Info

Reference - Drawing Numbers

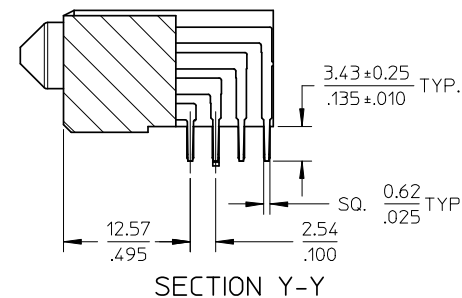
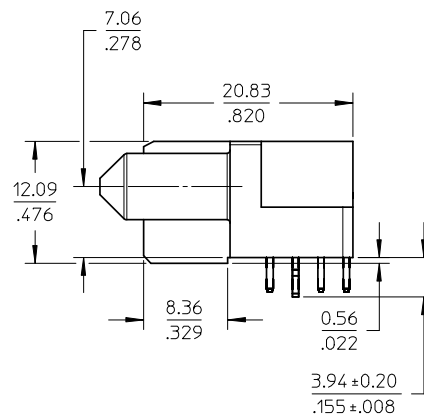
Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-87632-013

This document was generated on 05/21/2010

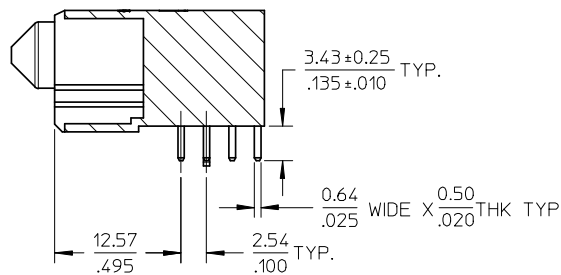
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ISOMETRIC VIEW



SECTION Y-Y



SECTION Z-Z
(CONTACT DETAIL NOT SHOWN)

PDR#S-001735-00-00
EC NO: S2008-0445
DRWN:SKANG
CHKD:ATSEE
APPR:MLONG
REV
D2

QUALITY SYMBOLS
▽=0
∇=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.13	± ---
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		

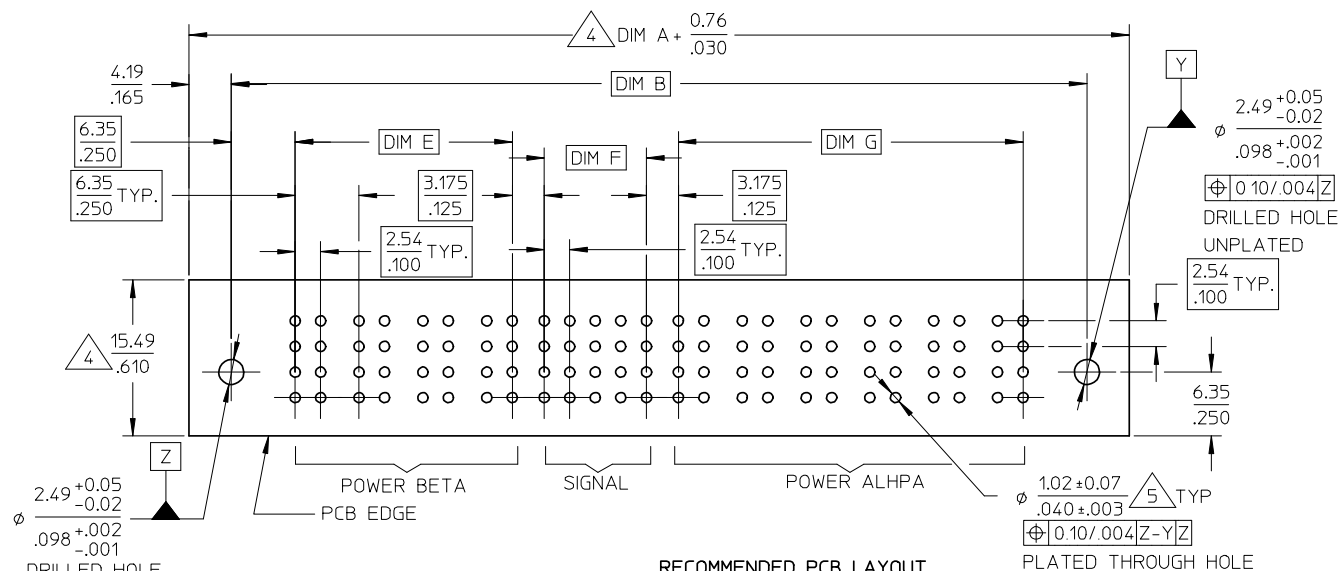
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

DIMENSION STYLE
MM/IN

DRAWN BY	DATE
KMG0H	2002/11/19
CHECKED BY	DATE
PTLIM	2002/11/21
APPROVED BY	DATE
SKTOH	2002/11/21
MATERIAL NO.	SEE TABLE
SIZE	A3

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	THIRD ANGLE PROJECTION
TITLE POWER CONN. RECEPTACLE P(B)-S-P(A) CONFIG. RIGHT ANGLE, THRU HOLE		
MOLEX INCORPORATED		
DOCUMENT NO.	SD-87632-013	SHEET NO. 1 OF 3

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



NOTES

1. MATERIALS :-

HOUSING - HIGH TEMPERATURE THERMO-PLASTIC,
GLASS FILLED, UL94V-0, COLOR : BLACK.
SIGNAL TERMINAL - COPPER ALLOY
POWER TERMINAL - COPPER ALLOY

2. FINISH :-

SIGNAL & POWER CONTACTS
0.76um MIN. GOLD (Au) AT CONTACT AREA AND 2.54um MIN. TIN
AT SOLDER TAIL AREA OVER 1.27um MIN. NICKEL (Ni) UNDERPLATE.
BOARD-LOCK - 2.54 MICROMETER MINIMUM TIN (Sn) OVER
1.27 MICROMETER MINIMUM NICKEL (Ni) UNDERPLATE

3. PRODUCT SPECIFICATION : PS-87631-006.

4. COMPONENT STAY AWAY ZONE FROM CONNECTOR.

5. PCB NOTE FOR DIAMETER 1.02/.040 PLATED HOLE

- DRILLED HOLE SIZE IS 1.151/.0453
- PLATE WITH 0.007/.0003 MINIMUM TIN OVER 0.03/.001
TO 0.08/.003 COPPER PLATING TO ACHIEVE 1.02±0.08/.040±.003 HOLE.

6. ALL TERMINAL TIPS ARE DESIGNED WITH EXPOSE BASE COPPER.

THIS IS CREATED BY FINAL CUTTING PROCESS PLATING.

7. MANUFACTURER LOGO, PART NUMBER AND YEAR-WEEK CODE.

8. 4 POWER BETA-20 SIGNAL-6 POWER ALPHA IS SHOWN FOR ILLUSTRATION.

POWER-SIGNAL-POWER CONFIGURATION IS AVAILABLE UP TO 203MM/8INCH.
PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER CONFIGURATION
AND OPTION NEEDED.

PDR#S-001735-00-00					2007/12/12 2007/12/12 2007/12/13	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	 THIRD ANGLE PROJECTION	
EC NO: S2008-0445								MM/IN	NTS	METRIC					
DRWN:SKANG								mm	INCH	DRAWN BY	DATE	TITLE POWER CONN. RECEPTACLE P(B)-S-P(A) CONFIG. RIGHT ANGLE, THRU HOLE			
CHKD:ATSEE								4 PLACES	± ---	± ---	KMG0H				2002/11/19
APPR:MLONG								3 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX MOLEX INCORPORATED		
								2 PLACES	± 0.13	± ---	PTLIM	2002/11/21			
								1 PLACE	± 0.25	± ---	APPROVED BY	DATE			
								ANGULAR ± 3 °		SKT0H	2002/11/21	DOCUMENT NO.			SD-87632-013
								DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SHEET NO.			
D2								SIZE	SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		2 OF 3		

10		9			8	7			6			5	4	3	2	1	
ASSEMBLY PART NUMBER	P-S-P CONFIGURATION			RECESSERD POWER CIRCUIT #	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	PACKAGING					
	POWER BETA	SIGNAL	POWER ALPHA														
F	87632-3000	5	24	3	NIL	82.54 3.250	74.93 2.950	73.65 2.900	59.69 2.350	27.94 1.100	12.70 .500	15.24 .600	TRAY				
	87632-3001	4	20	6	NIL	92.71 3.650	85.10 3.350	83.82 3.300	69.86 2.750	21.59 .850	10.16 .400	34.29 1.350	TRAY				
	87632-3006	2	32	2	NIL	62.23 2.450	54.61 2.150	53.34 2.100	39.37 1.550	8.89 .350	17.78 .700	8.89 .350	TRAY				
	87632-3009	4	24	2	NIL	69.84 2.750	62.23 2.450	60.95 2.400	46.99 1.850	21.59 .850	12.70 .500	8.89 .350	TRAY				
	87632-3011	1	16	1	NIL	39.37 1.550	31.75 1.250	30.48 1.200	16.51 .650	2.54 .100	7.62 .300	2.54 .100	TRAY				
E	87632-3013	5	32	5	NIL	100.33 3.950	92.71 3.650	91.44 3.600	77.47 3.050	27.94 1.100	17.78 .700	27.94 1.100	TRAY				
	87632-3017	4	28	4	NIL	85.09 3.350	77.47 3.050	76.20 3.000	62.23 2.450	21.59 .850	15.24 .600	21.59 .850	TRAY				
	87632-3018	4	40	4	NIL	92.71 3.650	85.09 3.350	83.82 3.300	69.85 2.750	21.59 .850	22.86 .900	21.59 .850	TRAY				
	87632-3019	2	16	2	NIL	52.08 2.050	44.46 1.750	43.19 1.700	29.22 1.150	8.89 .350	7.62 .300	8.89 .350	TRAY				
D	87632-3020	2	12	2	NIL	49.53 1.950	41.91 1.650	40.64 1.600	26.67 1.050	8.89 .350	5.08 .200	8.89 .350	TRAY				
	87632-3021	4	24	4	NIL	82.55 3.250	74.93 2.950	73.66 2.900	59.69 2.350	21.59 .850	12.70 .500	21.59 .850	TRAY				
C																	
B																	