

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878941000](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 5.08mm (.200") Pitch, Power, 2.54mm (.100") Pitch, Signal, EXTreme PowerPlus™ S-P(B) Receptacle, Press-fit, Vertical, 34 Circuits, Power Beta 10, Signal 24 Recessed Power Circuits at B1,B2,B3,B9,B10 with Beveled Metal Pins, Leadfree

Documents:
[3D Model](#) [Product Specification PS-87633-006 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

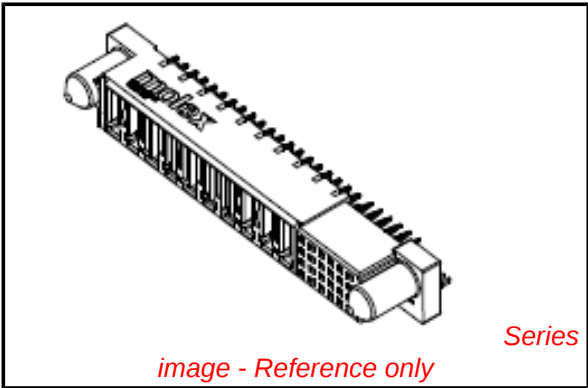
Product Family PCB Receptacles
Series [87894](#)
Application Board-to-Board
Comments Recessed Power Circuits at: B1,B2,B3,B9,B10
Overview [extreme_powerplus_ssi](#)
Product Name EXTreme PowerPlus™

Physical

Circuits (Loaded) 34
Circuits Detail Power Beta 10, Signal 24
Color - Resin Black
Durability (mating cycles max) 100
Flammability 94V-0
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 Vertical
PC Tail Length (in) 0.135 In
PC Tail Length (mm) 3.43 mm
PCB Locator No
PCB Retention Yes
Packaging Type Tray
Pitch - Mating Interface (in) 0.100 In, 0.200 In
Pitch - Mating Interface (mm) 2.54 mm, 5.08 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
Temperature Range - Operating -20°C to +105°C
Termination Interface: Style Through Hole - Compliant Pin

Electrical

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



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
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
[87894Series](#)

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

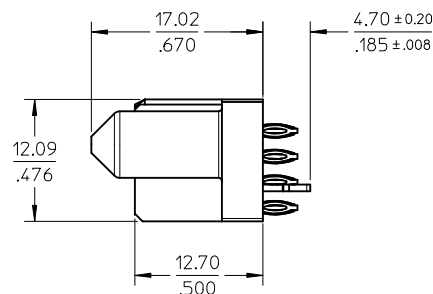
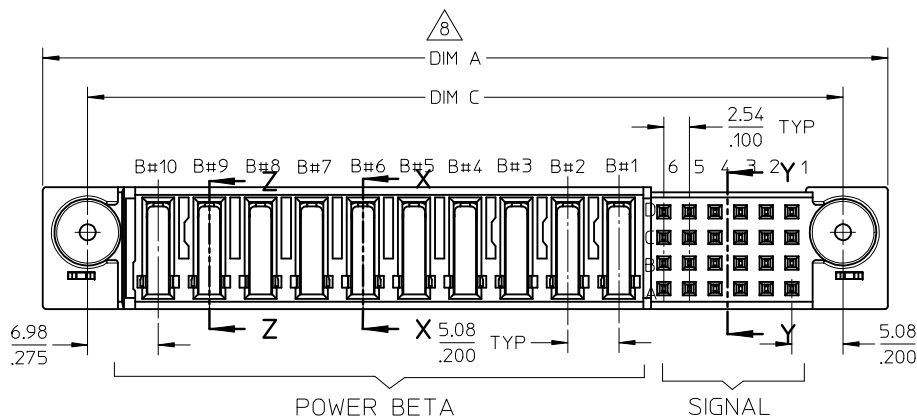
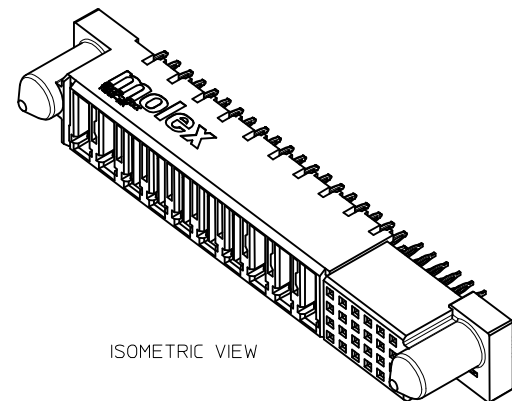
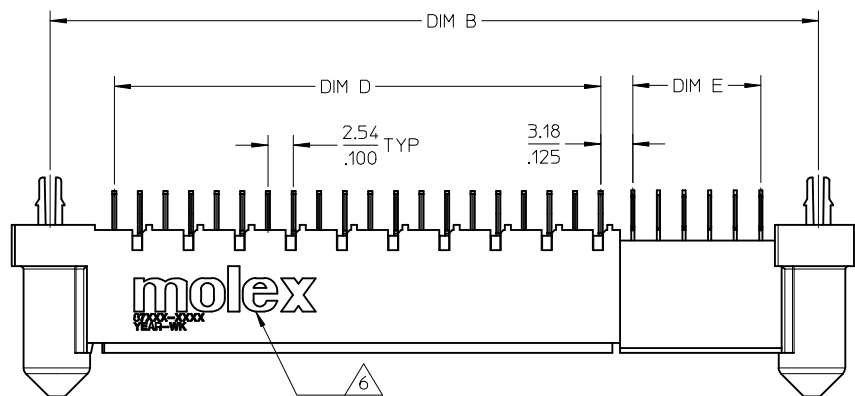
Material Info

Reference - Drawing Numbers

Application Specification	AS-87631-018, AS-87633-007
Product Specification	PS-87633-006
Sales Drawing	SD-87894-001

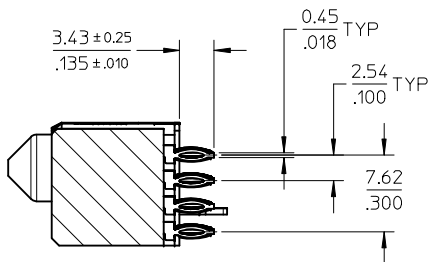
This document was generated on 05/22/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

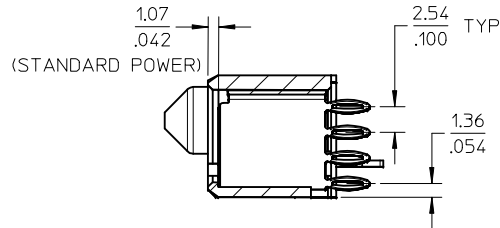


INITIAL RELEASE EC NO: S2009-0262 DRWN:SKANG CHKD:ATSEE APPR:MLONG		2009/01/19 2009/02/04 2009/02/06	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
							MM/IN		NTS	METRIC			
							DRAWN BY DATE		TITLE				
							CHECKED BY DATE		POWER CONN. RECEPTACLE S-P(B) CONFIGURATION VERTICAL, P/F, B/L				
							APPROVED BY DATE		MOLEX INCORPORATED				
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87894-001		1 OF 2			
A						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

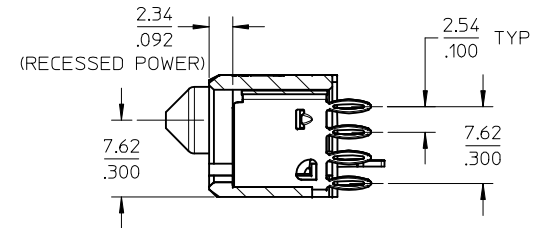
10	9	8	7	6	5	4	3	2	1
ASSEMBLY PART NUMBER	P-S CONFIGURATION		DIMENSION					RECESSED POWER CIRCUIT	PACKAGING
87894-1000	10	24	83.82 3.300	76.20 3.000	74.93 2.950	48.26 1.900	12.70 .500	B1, B2, B3, B9, B10	TRAY



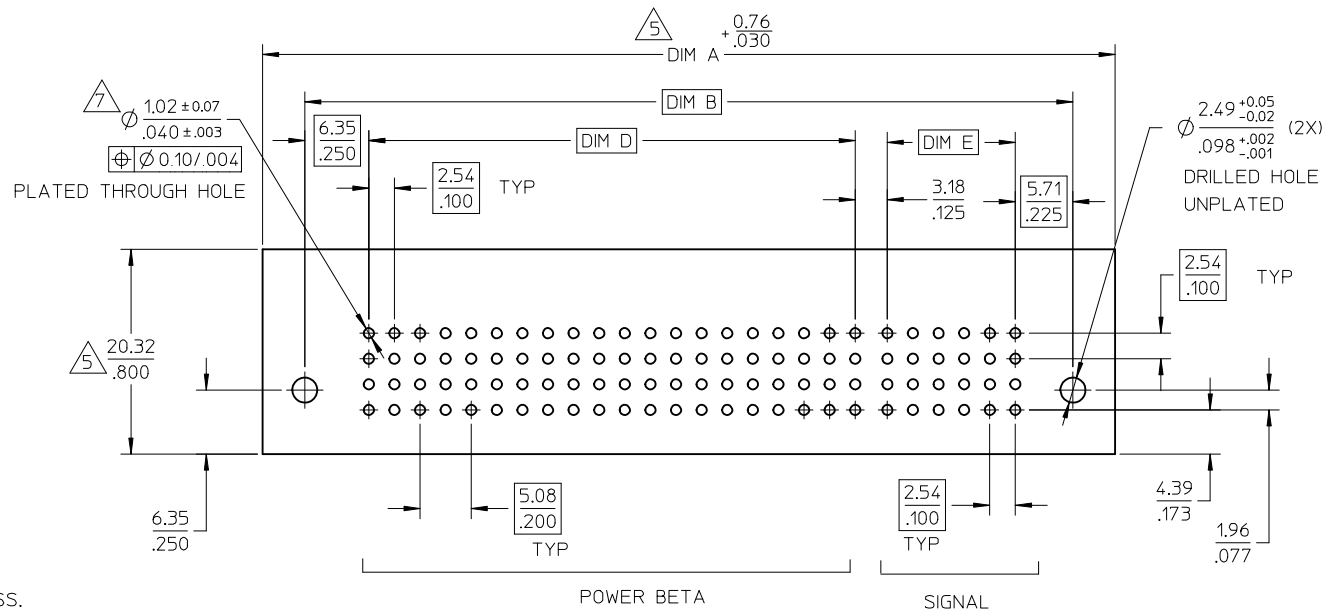
SECTION Y-Y



SECTION X-X



SECTION Z-Z



NOTES

1. MATERIALS :

- HOUSING - LCP, GLASS FILLED, UL94-0,COLOR:BLACK.
- SIGNAL PIN - COPPER ALLOY
- POWER PIN - COPPER ALLOY
- BOARDLOCK - COPPER ALLOY

2. FINISH :

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

3. PRODUCT SPECIFICATION: PS-87633-006.

4. SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT AND THICKNESS.

5. COMPONENT STAY AWAY ZONE FROM CONNECTOR.

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

7. 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.

8. 24 SIGNAL - 10 POWER BETA IS SHOWN FOR ILLUSTRATION

CONNECTOR CONFIGURATON IS AVAILABLE UP TO 203MM/INCH.
PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER
CONFIGURATION AND OPTION NEEDED.

INITIAL RELEASE EC NO: S2009-0262 2009/01/19 DRWN:SKANG CHKD:ATSEE 2009/02/04 APPR:MLONG 2009/02/06			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	DATE	TITLE POWER CONN. RECEPTACLE S-P(B) CONFIGURATION VERTICAL, P/F, B/L MOLEX INCORPORATED SD-87894-001					
4 PLACES		± ---			± ---	SKANG	2008/10/02						
3 PLACES		± ---			± .01	CHECKED BY	DATE						
2 PLACES		± 0.25			± ---	ATSEE	2008/12/18						
1 PLACE		± ---			± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED					
ANGULAR ± 3 °					MLONG	2008/12/18							
					MATERIAL NO.	DOCUMENT NO.							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					SEE TABLE		SD-87894-001		2 OF 2				
A		REV			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						