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Part Number: [0876640004](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 6.35mm (.250") and 7.62mm (.300") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ PB(AC)SPA(DC) Receptacle, Through Hole, Right Angle, 36 Circuits, Power Beta 1, Signal 32, Power Alpha 3, Recessed Power Circuit Positions: B1B3 Void Signal

Documents:
[3D Model](#) [Product Specification PS-87663-006 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family PCB Receptacles
Series [87664](#)
Application Board-to-Board
Comments Recessed Power Circuit Position: B1-B3; Void Signal
Pins: A5, A6, A8, B5, B6, B8, C5, C6, C8, D5, D6, D8.
[extreme_powerplus_ssi](#)
Overview EXTreme PowerPlus™
Product Name

Physical

Circuits (Loaded) 24
Circuits (maximum) 36
Circuits Detail Power Beta 1, Signal 32, Power Alpha 3
Color - Resin Black
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part Yes
Lock to Mating Part None
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 Yes
PCB Retention Yes
Packaging Type Tray
Pitch - Mating Interface (in) 0.100 In, 0.250 In, 0.300 In
Pitch - Mating Interface (mm) 2.54 mm, 6.35 mm, 7.62 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
Stackable No
Temperature Range - Operating -20°C to +105°C
Termination Interface: Style Through Hole

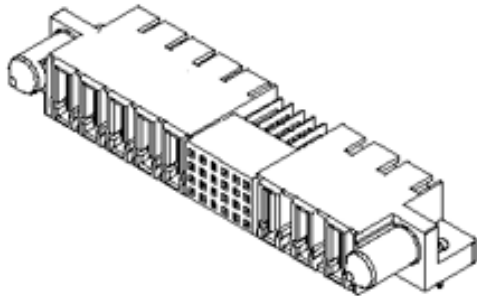


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

[87664Series](#)

Mates With

[87663](#) PCB Header with Beveled Metal Pins

Electrical

Current - Maximum per Contact	2.5A, 30A, 50A
Voltage - Maximum	250V (RMS)

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

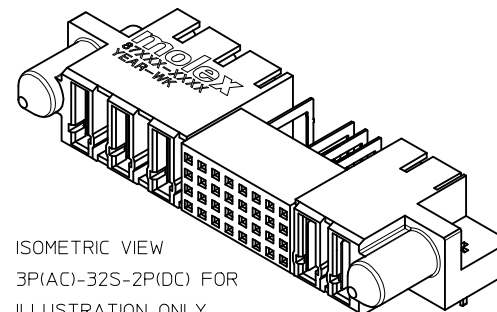
Material Info

Reference - Drawing Numbers

Product Specification	PS-87663-006
Sales Drawing	SD-87664-031

This document was generated on 06/02/2010

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25.15
.990

20.83
.820

0.56
.022

12.09
.476

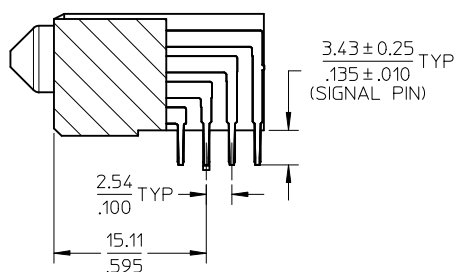
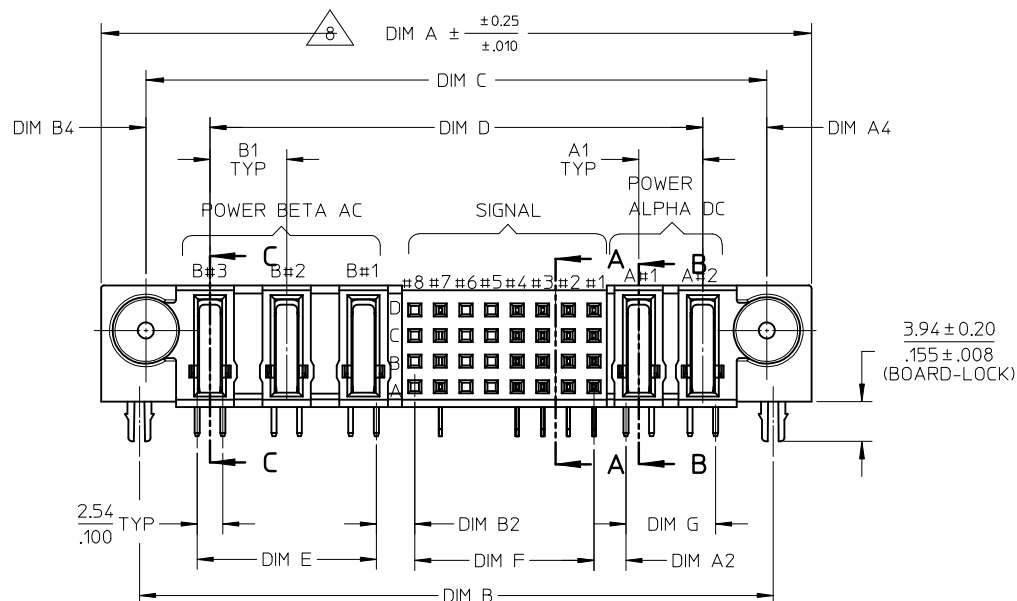
7.06
.278

2.54
.100 TYP

15.11
.595

0.64
.025 TYP

3.43 ± 0.25 TYP
.135 ± .010 (POWER PIN)



SECTION A-A

CORRECT TYPE ERROR			DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
EC NO: S2009-0410 2008/12/02 DRWN:SKANG 2008/12/02 CHKD:ATSEE 2008/12/02 APPR:MLONG					mm		INCH		DRAWN BY DATE		TITLE POWER RECEPTACLE PB(AC)-S-PA(DC) CONFIG. R/A, T/H, BOARDLOCK			
					4 PLACES ± --- ± ---		KFLIM 2005/11/15							
					3 PLACES ± --- ± ---		CHECKED BY DATE							
2 PLACES ± 0.13 ± ---		BHLOW 2005/11/15		APPROVED BY DATE		MOLEX MOLEX INCORPORATED								
1 PLACE ± 0.25 ± ---		PTLIM 2005/11/17												
ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.								
DRAFT WHERE APPLICABLE		SEE TABLE		SD-87664-031		1 OF 3								
MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
REV														

10 9 8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

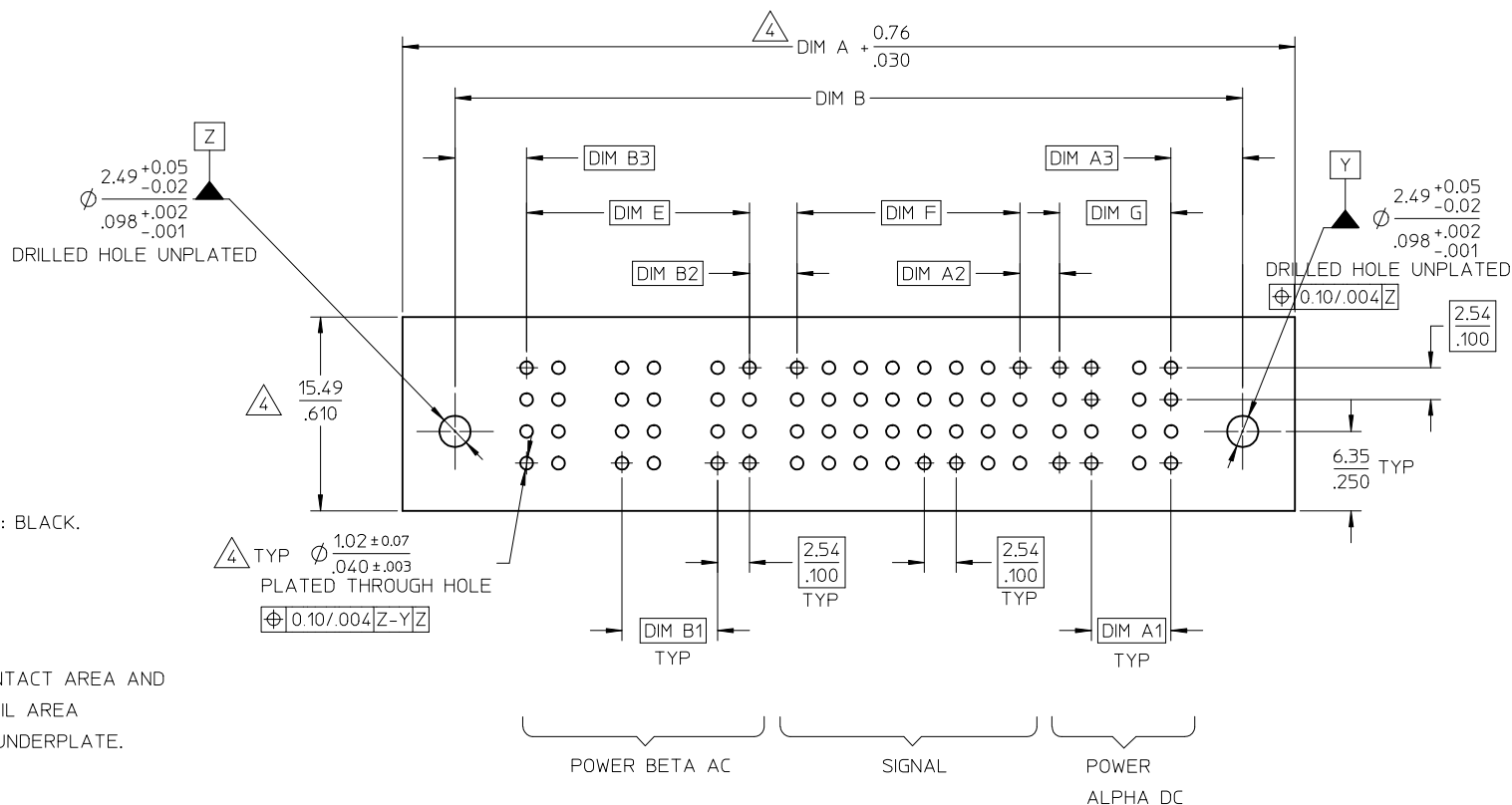
E

D

C

B

A



NOTES:

1. MATERIALS:-

HOUSING - LCP.

GLASS FILLED, UL94V-0, COLOUR: BLACK.

SIGNAL TERMINAL - COPPER ALLOY

POWER TERMINAL - 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 1.27 MICROMETER MINIMUM NICKEL (Ni) UNDERPLATE.

3. PRODUCT SPECIFICATION : PS-87663-006.

4. COMPONENT STAY AWAY FROM CONNECTOR.

5. PCB NOTE FOR DIAMETER 1.02/0.040 PLATED HOLE.

- DRILLED HOLE SIZE IS 1.15/ .0453.

- PLATE WITH 0.007 / .0003 MINIMUM TIN OVER 0.03/.001

TO 0.08/.003 COPPER PLATING TO ACHIEVE 1.02±0.07/.040±.003 HOLE.

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

THIS IS CREATED BY FINAL CUTTING PROCESS AFTER PLATING.

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

8. 3P(AC)-32S-2P(DC) IS SHOWN FOR ILLUSTRATION.

CONNECTOR CONFIGURATION IS AVAILABLE UP TO 203MM/8INCH.

PLEASE CONTACT MOLEX SALES PERSONNEL FOR OTHER

CONFIGURATION AND OPTION NEEDED.

CORRECT TYPO ERROR EC NO: S2009-0410 2008/12/02 DRAWN:SKANG 2008/12/02 CHKD:ATSEE 2008/12/02 APPR:MLONG	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					DRAWN BY KFLIM	DATE 2005/11/15	TITLE POWER RECEPTACLE PB(AC)-S-PA(DC) CONFIG. R/A, T/H, BOARDLOCK					
					CHECKED BY BHLOW	DATE 2005/11/15						
					APPROVED BY PTLIM	DATE 2005/11/17	MOLEX INCORPORATED					
			ANGULAR ± 3 °		MATERIAL NO.							DOCUMENT NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87664-031				2 OF 3	
					THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
B2	REV											

9 8 7 6 5 4 3 2 1

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9