

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0876642004

Status:

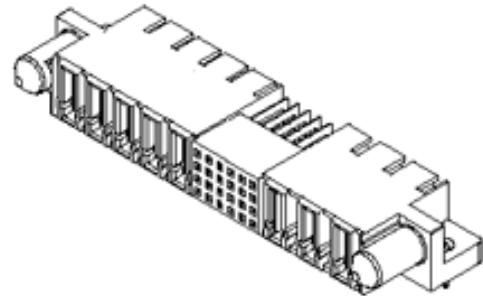
Active

Overview:

extreme_powerplus_ssi

Description:

6.35mm (.250") and 7.62mm (.300") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ AC/DC Receptacle, Through Hole, Right Angle,31 Circuits, Power Beta 4, Signal 24, Power Alpha 3, Recessed Power Circuits Positions A2, A3, Leadfree



Series

image - Reference only

Documents:

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

Agency Certification

UL

E29179

General

Product Family

Series

Application

Comments

Overview

Product Literature Order No

Product Name

PCB Receptacles

87664

Board-to-Board

Recessed Power Circuit Position: A2,A3

extreme_powerplus_ssi

987650-3002

EXTreme PowerPlus™

Physical

Circuits (Loaded)

Circuits Detail

Color - Resin

Flammability

Glow-Wire Compliant

Guide 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

PCB Thickness Recommended (in)

PCB Thickness Recommended (mm)

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

31

Power Beta 4, Signal 24, Power Alpha 3

Black

94V-0

No

Yes

None

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

4

Right Angle

0.135 In

3.43 mm

Yes

Yes

0.062 In

1.60 mm

Tray

0.100 In, 0.250 In, 0.300 In

2.54 mm, 6.35 mm, 7.62 mm

30

0.76

100

2.54

Yes

Yes

No

-20°C to +105°C

Through Hole

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

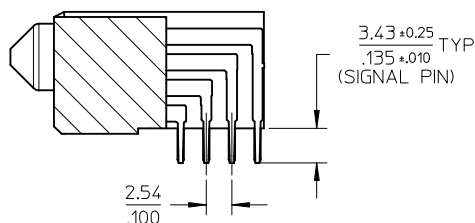
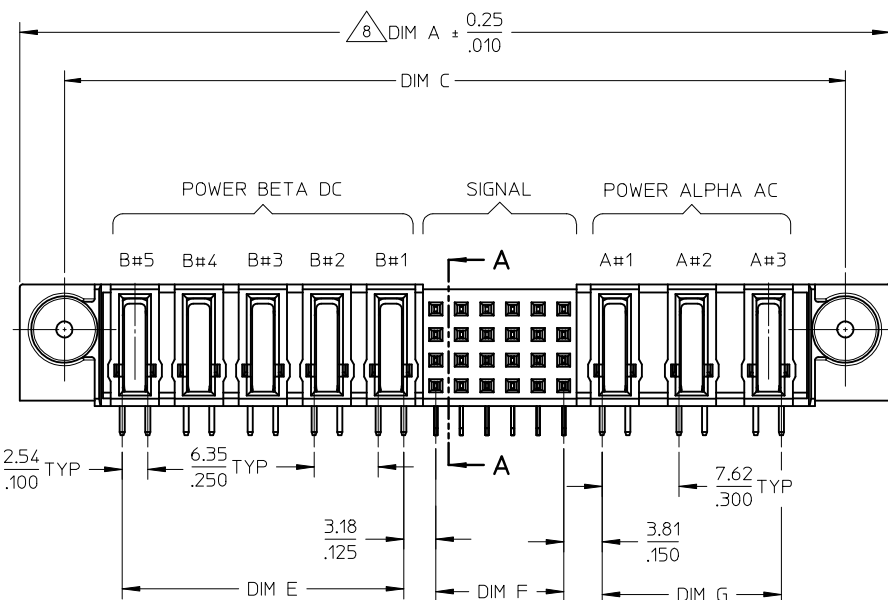
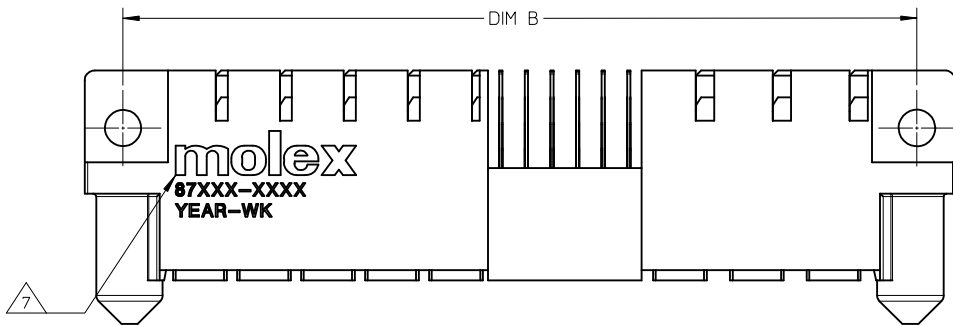
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87663-006
Sales Drawing	SD-87664-021

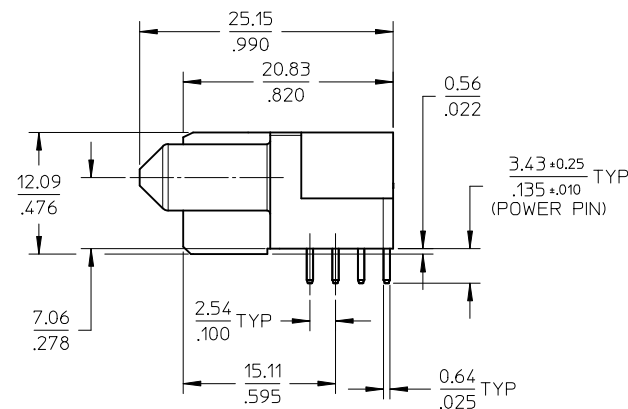
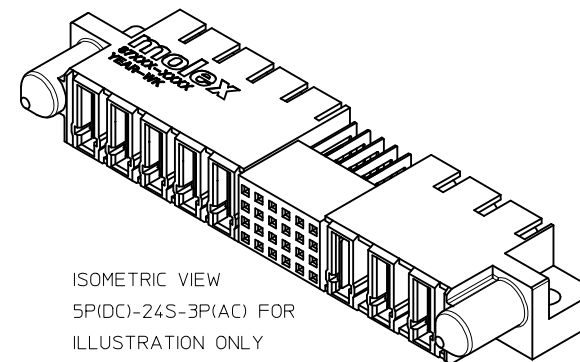
This document was generated on 06/02/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

10 9 8 7 6 5 4 3 2 1

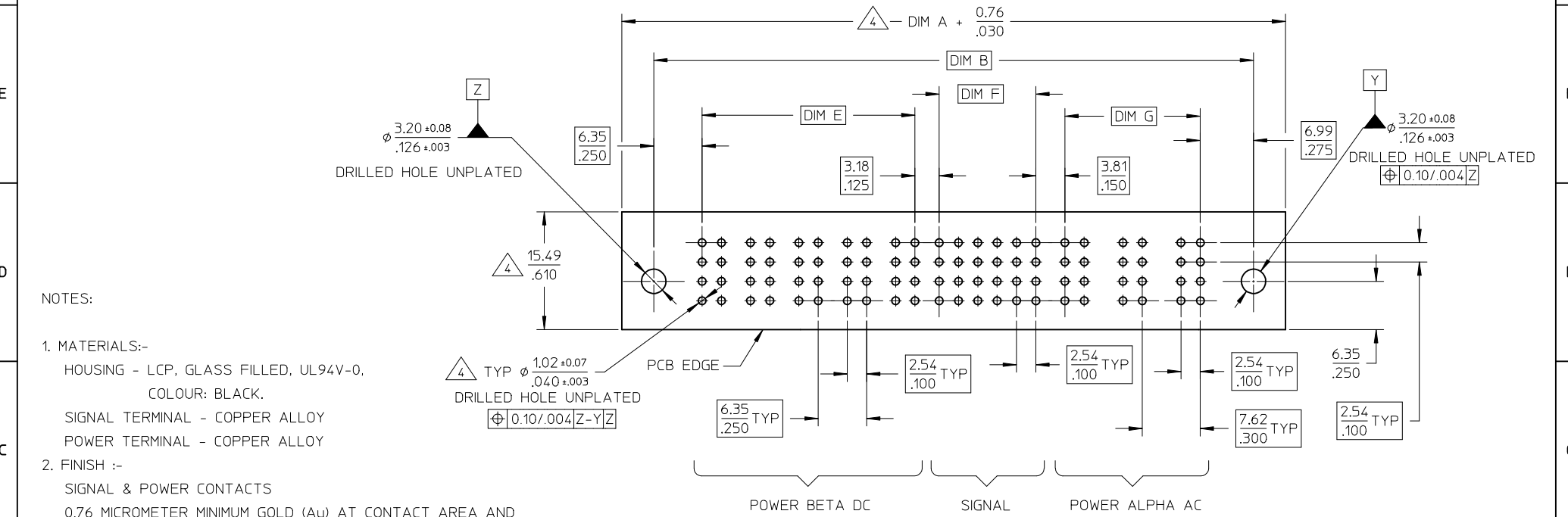


SECTION A-A



CORRECT PCB HOLE SIZE EC NO: S2009-0841 DRWN:SKANG CHKD:ATSEE APPR:MLONG		QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)				DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm		INCH		DRAWN BY DATE		TITLE			
				4 PLACES	± ---	± ---	NRVITTAP	2004/06/15	AC/DC POWER RECEPTACLE P(A)AC-S-P(B)DC CONFIG. R/A, T/H, S/M				
				3 PLACES	± ---	± .005	CHECKED BY DATE	MOLEX INCORPORATED					
REV C1	REV	DESCRIPTION	2 PLACES	± 0.13	± .010	PTLIM	2004/06/25	APPROVED BY DATE		DOCUMENT NO.		SHEET NO. 1 OF 2	
			1 PLACE	± 0.25	± ---	SKTOH	2004/06/29	MATERIAL NO.		SD-87664-021			
			ANGULAR ± 3 °				SIZE A3		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										

	10	9		8	7			6			5		4	3	2	1
F	PART NUMBER	P-S-P CONFIGURATION			DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	RECESSED POWER PIN LOCATION		PACKAGING		
		POWER BETA DC	SIGNAL	POWER ALPHA AC								A	B			
	87664-2004	4	24	3	$\frac{80.01}{3.150}$	$\frac{72.39}{2.850}$	$\frac{71.12}{2.800}$	$\frac{56.52}{2.225}$	$\frac{21.59}{0.850}$	$\frac{12.70}{.500}$	$\frac{17.78}{.700}$	A	2, 3	TRAY		
											B	-----				



RECOMMENDED PCB LAYOUT											
CORRECT PCB HOLE SIZE				QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS
EC NO: S2009-0841 DRWN:SKANG CHKD:ATSEE APPR:MLONG				2009/05/06 2009/05/08 2009/05/11		mm		MM/IN		NTS	METRIC
REV				DESCRIPTION		INCH		DRAWN BY		DATE	TITLE
C1				=0 =0		4 PLACES ± --- ± ---		NRVITAP		2004/06/15	AC/DC POWER RECEPTACLE P(A)AC-S-P(B)DC CONFIG. R/A, T/H, S/M MOLEX INCORPORATED
						3 PLACES ± --- ± .005		CHECKED BY		DATE	
						2 PLACES ± 0.13 ± .010		PTLIM		2004/06/25	SD-87664-021
						1 PLACE ± 0.25 ± ---		APPROVED BY		DATE	
						ANGULAR ± 3 °		SKTOH		2004/06/29	
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.	SHEET NO.
						SEE TABLE		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	2 OF 2