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Part Number: [0876842001](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 6.35mm (.250") Pitch EXTreme PowerPlus™ Header, All Power, Through Hole, Right Angle, 2 Circuits, Lead-free

Documents:
[3D Model](#) [Product Specification PS-87631-006 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

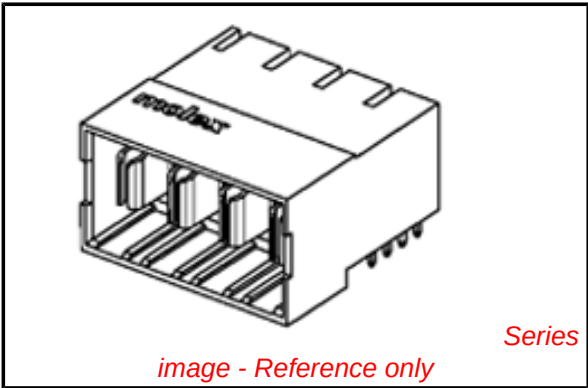
CSA LR19980
UL E29179

General

Product Family PCB Headers
Series [87684](#)
Application Board-to-Board
Overview [extreme_powerplus_ssi](#)
Product Name EXTreme PowerPlus™

Physical

Breakaway No
Circuits (Loaded) 2
Circuits (maximum) 2
Circuits Detail All Power
Color - Resin Black
Durability (mating cycles max) 100
First Mate / Last Break No
Flammability 94V-0
Glow-Wire Compliant No
Guide to Mating Part No
Keying to Mating Part N/A
Lock to Mating Part No
Material - Metal Copper Alloy
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
Number of Rows 1
Orientation Right Angle
PC Tail Length (in) 0.136 In
PC Tail Length (mm) 3.45 mm
PCB Locator No
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.57 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.250 In
Pitch - Mating Interface (mm) 6.35 mm
Pitch - Term. Interface (in) 0.250 In
Pitch - Term. Interface (mm) 6.35 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 101.6
Plating min: Termination (µm) 2.54
Polarized to Mating Part No



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
[87684Series](#)

Polarized to PCB	Yes
Shrouded	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-20°C to +70°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	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-87684-001

This document was generated on 05/25/2010

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F

E

D

C

B

A

F

E

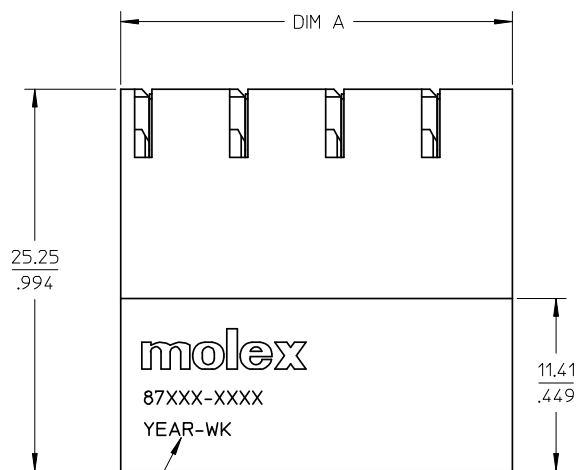
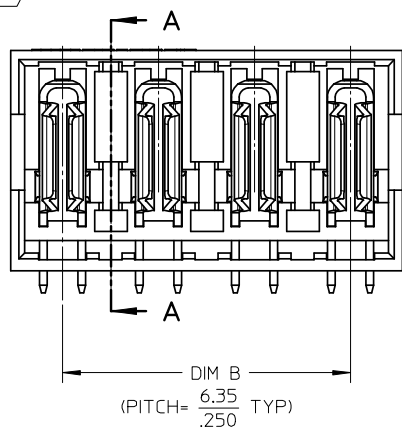
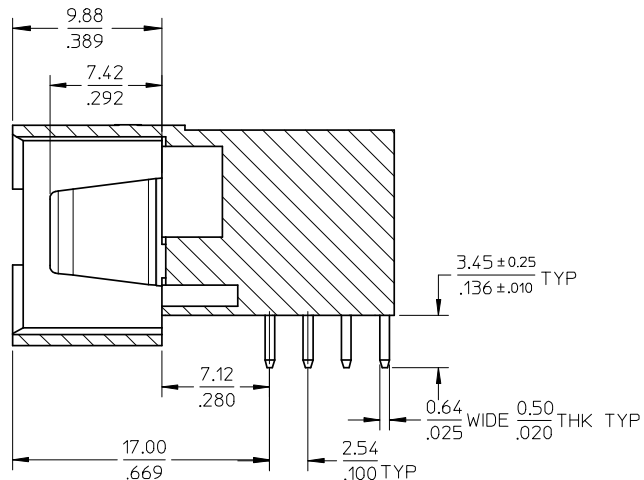
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C

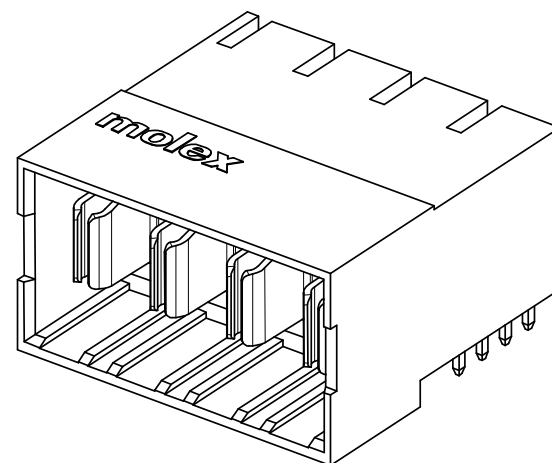
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A

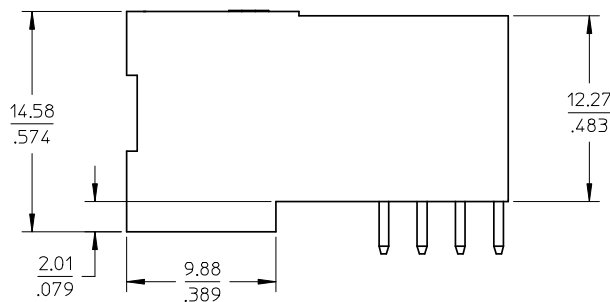
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SECTION A-A

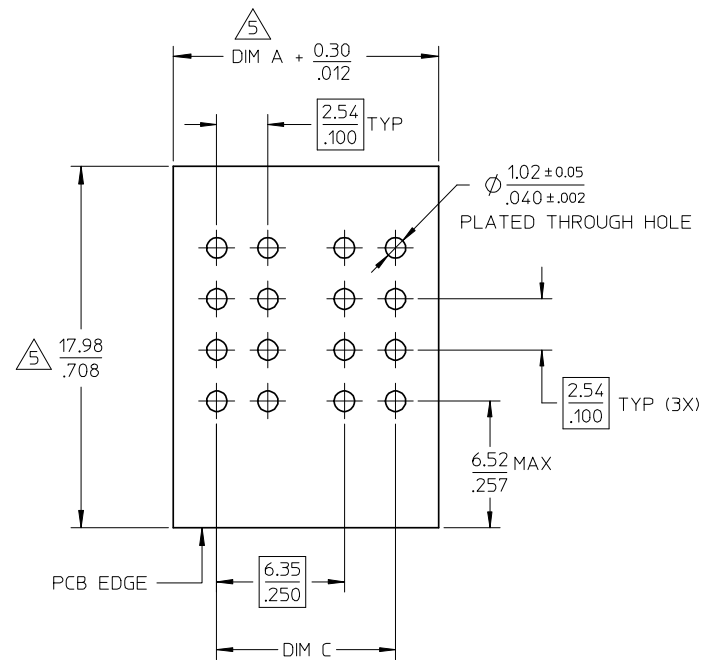


ISOMETRIC VIEW

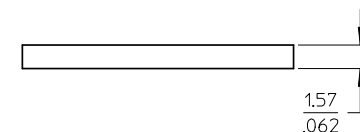


<div>REVISED NOTE 3.</div> <div>EC NO: S2008-0648</div> <div>DRWN:SKANG</div> <div>CHKD:ATSEE</div> <div>APPR:MLONG</div> <div>A2</div>		<div>QUALITY SYMBOLS</div> <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
					MM/IN		NTS	METRIC				
<div>DESCRIPTION</div> <div>A2</div>				DRAWN BY DATE		TITLE						
				SKANG 2007/03/28								
				CHECKED BY DATE		HEADER, POWER CONN ALL BLADES POWER CONFIG. R/A, T/H						
				GMENARLY 2007/04/04								
<div>REV</div>				APPROVED BY DATE		MOLEX MOLEX INCORPORATED						
				MLONG 2007/04/04								
				MATERIAL NO.		DOCUMENT NO.						
				SEE TABLE								SD-87684-001
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE		SHEET NO.						
				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
PART NUMBER	NO OF POWER PINS	DIM A	DIM B	DIM C	PACKAGING				
87684-2001	2	<u>13.20</u> .520	<u>6.35</u> .250	<u>8.89</u> .350	TRAY				



RECOMMENDED PCB LAYOUT



- NOTES:
- MATERIALS: HOUSING - HIGH TEMPERATURE, THERMO-PLASTIC
GLASS FILLED, UL94V-0, COLOUR: BLACK
POWER BLADES - COPPER ALLOY
 - FINISHES: POWER - SELECTIVE GOLD IN CONTACT AREA
THICKNESS=0.76 μ m /30 μ m MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA
THICKNESS= 2.54 μ m /100 μ m MINIMUM WITH
1.27 μ m /50 μ m MINIMUM NICKEL UNDERPLATE OVERALL.
 - PRODUCT SPECIFICATION: PS-87631-006.
APPLICATION SPECIFICATION: AS-87682-009.
 - SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT.
 - COMPONENT STAY AWAY ZONE FROM CONNECTOR.
 - MANUFACTURER LOGO, PART NUMBER AND YEAR-WK CODE.

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						MM/IN		NTS	METRIC				
						mm	INCH	DRAWN BY	DATE	TITLE	<div>HEADER, POWER CONN</div> <div>ALL BLADES POWER CONFIG.</div> <div>R/A, T/H</div>		
				4 PLACES	± ---	± ---	SKANG	2007/03/28					
				3 PLACES	± ---	± .010	CHECKED BY	DATE					
				2 PLACES	± 0.25	± ---	GMENARLY	2007/04/04					
				1 PLACE	± ---	± ---	APPROVED BY	DATE					
						ANGULAR ± 3 °		MLONG	2007/04/04	<div>MOLEX</div>	MOLEX INCORPORATED		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.	DOCUMENT NO.				
								SEE TABLE		SD-87684-001	2 OF 2		
		SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
		A3											