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Part Number: [0878072011](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 5.08mm (.200") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ S-P(B) Header, Through Hole, Right Angle, Beveled Metal Pins, 34 Circuits, Signal 24, Power Beta 10, Recessed Signal Pins: A2, A4, B4, C4, D6, Lead-free

Documents:
[Drawing \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

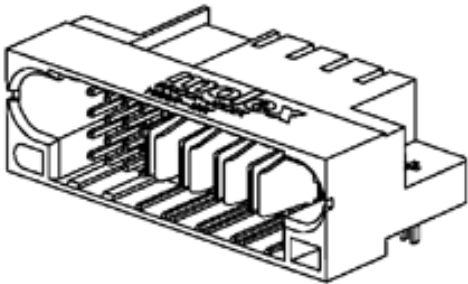
CSA LR19980

General

Product Family	PCB Headers
Series	87807
Application	Board-to-Board
Comments	Recessed Signal Pins: A2, A4, B4, C4, D6
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	34
Circuits Detail	Signal 24 Power Beta 10
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	Yes
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Keying to Mating Part	Yes
Lock 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	Right Angle
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
Shrouded	Fully
Stackable	No
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Contains SVHC: No
**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
[87807Series](#)

Electrical

Current - Maximum per Contact	2.5A, 30A
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

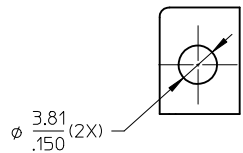
Material Info

Reference - Drawing Numbers

Sales Drawing	SD-87807-001
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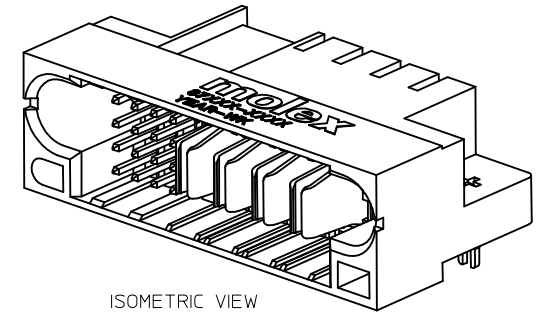
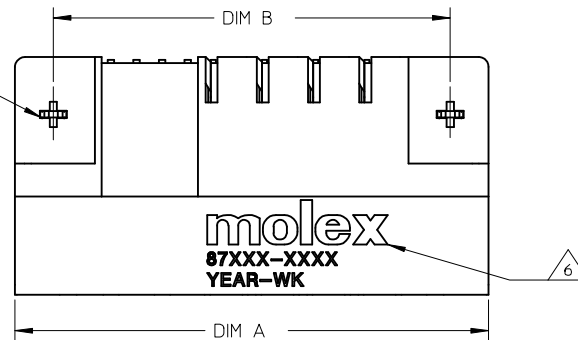
This document was generated on 05/26/2010

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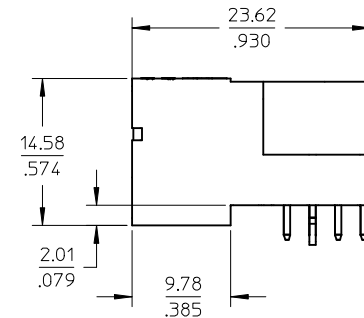
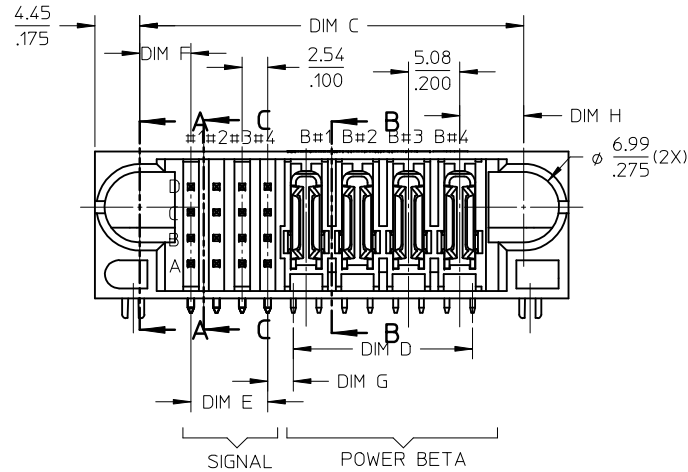


SCREWMOUNT OPTION
(SEE TABLE/SHEET 3)

REFER TO OPTION AT
TABLE/SHEET 3



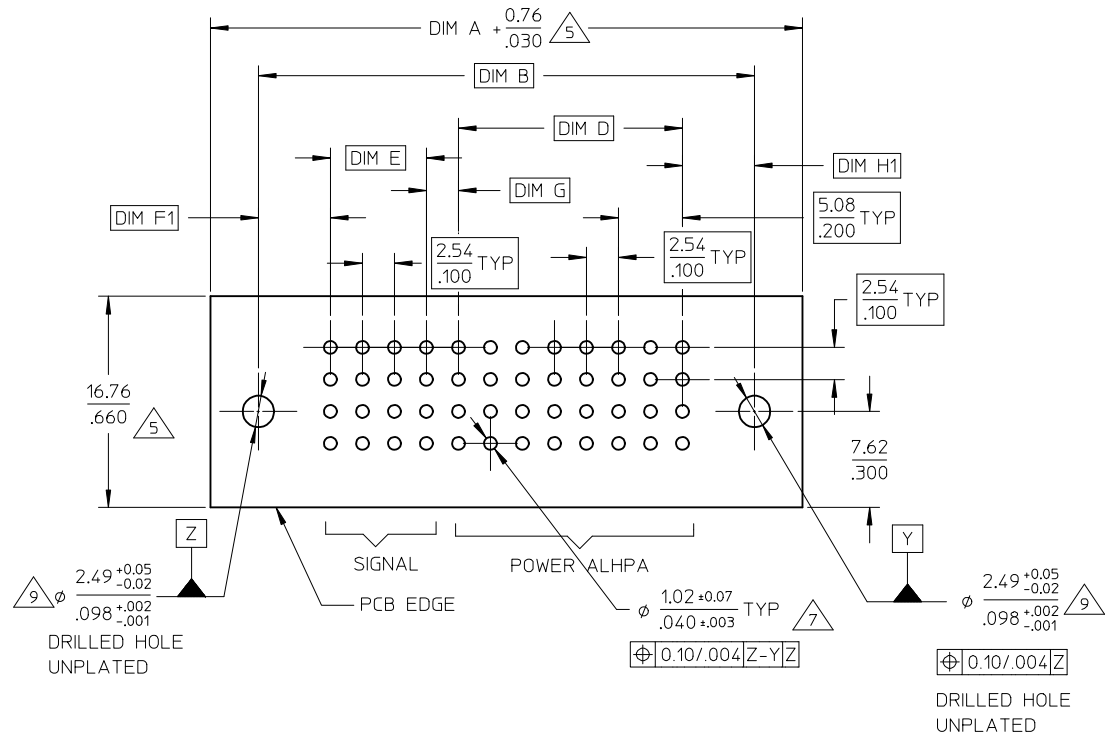
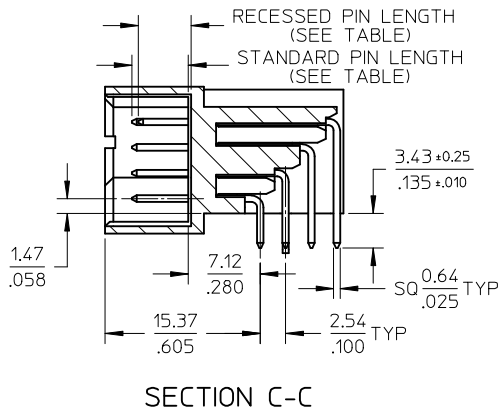
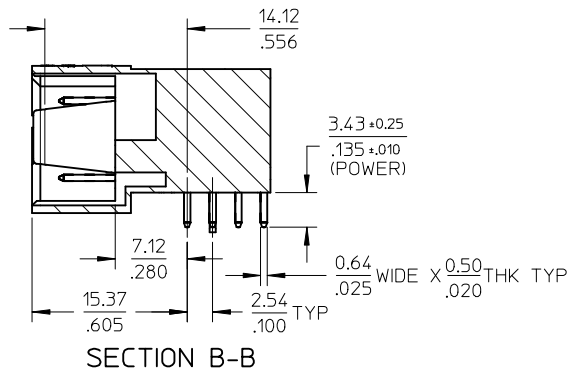
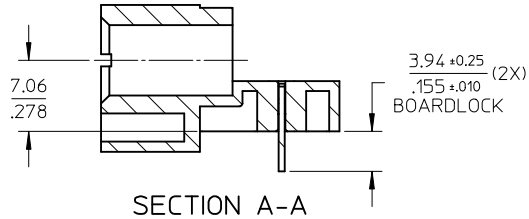
ISOMETRIC VIEW



NOTES:

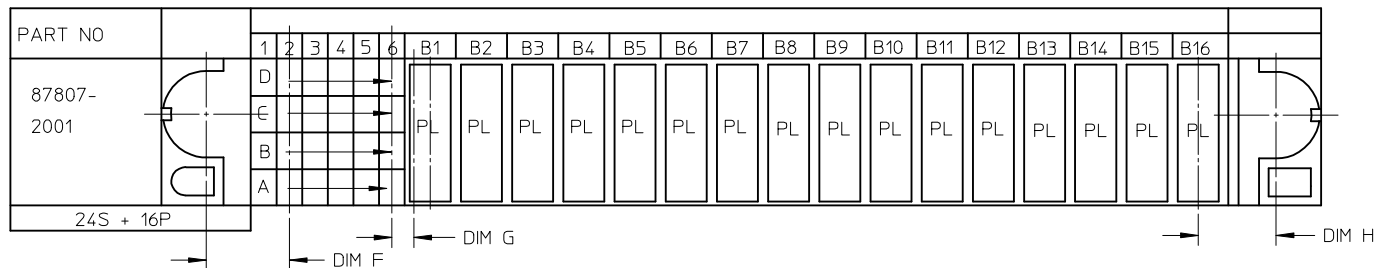
- MATERIALS: HOUSING - LCP, GLASS FILLED, UL94V-0,
COLOUR: BLACK
POWER PINS - COPPER ALLOY
SIGNAL PINS - COPPER ALLOY
BOARDLOCK - COPPER ALLOY
- FINISHES: POWER & SIGNAL PINS:
SELECTIVE GOLD IN CONTACT AREA.
THICKNESS= 0.76 MICROMETER/ 30 MICROINCH MINIMUM
SELECTIVE TIN ALLOY IN THE PC TAIL AREA
THICKNESS= 2.54 MICROMETER/100 MICROINCH MINIMUM
NICKEL OVERALL.
- PRODUCT SPECIFICATION: PS-87805-006.
- SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT AND THICKNESS.
- COMPONENT STAY AWAY ZONE FROM CONNECTOR.
- MANUFACTURER LOGO, PART NUMBER AND YEAR-WEEK CODE.
- PCB NOTE FOR DIAMETER 1.02/.040 PLATED HOLE.
- DRILLED HOLE SIZE IS 1.151/.0453.
- PLATED 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.
- 16 SIGNAL-4P BETA CONFIGURATION IS SHOWN FOR ILLUSTRATION.
- FOR SCREWMOUNT OPTION, THE DRILLED HOLE DIAMETER IS
4.01MM/.158".

ADD P/N(87807-2011) EC NO: S2009-0688 DRWN:YCHONG CHKD:ATSEE APPR:MLONG	REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY	DATE	TITLE POWER CONNECTOR HEADER 5.08MM VERSION S-P(B), R/A, T/H			
				4 PLACES	± ---	± ---	NRVITTAP	2004/03/26				
				3 PLACES	± ---	± .010	CHECKED BY	DATE				
				2 PLACES	± 0.25	± ---	BHLOW	2004/04/14				
				1 PLACE	± ---	± ---	APPROVED BY	DATE				
				ANGULAR ± 3 °		SCLOW	2004/04/19	 MOLEX INCORPORATED	DOCUMENT NO. SD-87807-001		SHEET NO. 1 OF 3	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.						
						SIZE A3		SEE TABLE				
												THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



ADD P/N(87807-2011) EC NO: S2009-0688 DRWN:YMCHONG CHKD:ATSEE APPR:MLONG 2009/03/27 2009/03/30 2009/03/30	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 NRVITTA	DATE 2004/03/26	TITLE POWER CONNECTOR HEADER 5.08MM VERSION S-P(B), R/A, T/H					
			4 PLACES	± ---	± ---	CHECKED BY BHLOW	DATE 2004/04/14						
			3 PLACES	± ---	± .010	APPROVED BY SCLOW		DATE 2004/04/19	MOLEX INCORPORATED				
			2 PLACES	± 0.25	± ---	MATERIAL NO.		DOCUMENT NO.					
			1 PLACE	± ---	± ---	SEE TABLE		SD-87807-001	2 OF 3				
			ANGULAR ± 3 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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		
F	PART NUMBER	P-S-P CONFIGURATION		DIM A	DIM B	DIM C	DIM D	DIM E	STANDARD SIGNAL PIN LENGTH	RECESSED SIGNAL PIN		PACKAGING	DIM F	DIM F1	DIM G	DIM H	DIM H1	BOARDLOCK OR SCREWMOUNT OPTION					
		SIGNAL	POWER BETA							LENGTH	LOCATION												
	87807-2001	24	16	114.3 4.500	106.68 4.200	105.41 4.150	78.74 3.100	12.70 .500	6.86/.270	5.59/.220	B3, C1, D1	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
	87807-2002	16	6	58.42 2.300	50.80 2.000	49.53 1.950	27.94 1.100	7.62 .300	6.86/.270	5.59/.220	A1	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
	87807-2003	24	6	63.51 2.500	55.89 2.200	54.61 2.150	27.94 1.100	12.70 .500	6.86/.270	5.59/.220	A1	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	BOARDLOCK					
	87807-2004	24	6	63.51 2.500	55.89 2.200	54.61 2.150	27.94 1.100	12.70 .500	6.86/.270	5.59/.220	A1	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
	87807-2005	24	6	63.51 2.500	55.89 2.200	54.61 2.150	27.94 1.100	12.70 .500	6.86/.270	5.59/.220	A1, B5, C5	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
E	87807-2006	24	6	63.51 2.500	55.89 2.200	54.61 2.150	27.94 1.100	12.70 .500	6.86/.270	5.59/.220	A1, B5, C5, C6	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
	87807-2007	24	6	63.51 2.500	55.89 2.200	54.61 2.150	27.94 1.100	12.70 .500	6.86/.270	5.59/.220	A1 TO A6	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
	87807-2010	24	10	83.83 3.300	76.21 3.000	74.93 2.950	48.26 1.900	12.70 .500	6.86/.270	5.59/.220	A2, A4, B4, C4, D6	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	SCREWMOUNT					
	87807-2011	24	10	83.83 3.300	76.21 3.000	74.93 2.950	48.26 1.900	12.70 .500	6.86/.270	5.59/.220	A2, A4, B4, C4, D6	TRAY	5.08 .200	5.72 .225	3.18 .125	6.98 .275	6.35 .250	BOARDLOCK					



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			2 PLACES	± 0.25	± ---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED				
			1 PLACE	± ---	± ---	SCLOW	2004/04/19					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
SEE TABLE		SD-87807-001				3 OF 3						
C5	REV		SIZE A3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									