

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0878072007](#)
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, Screw Mount, 30 Circuits, Signal 24, Power Beta 6, Recessed Signal Pins: A1 to A6, Lead-free

Documents:

3D Model	Product Specification PS-87805-006 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

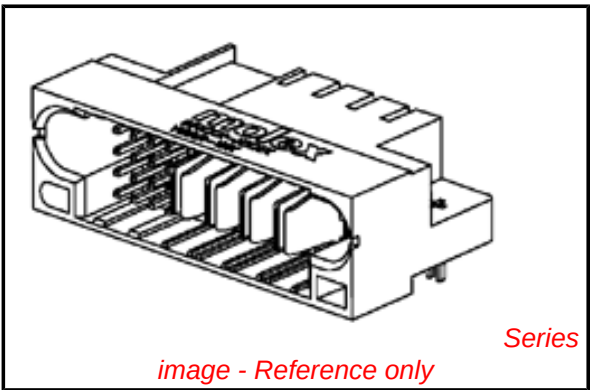
UL	E29179
----	--------

General

Product Family	PCB Headers
Series	87807
Application	Board-to-Board
Comments	Recessed Signal Pins: A1 to A6
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	30
Circuits Detail	Signal 24 Power Beta 6
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



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](#)

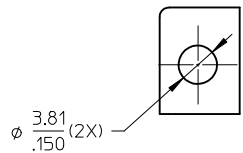
Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
[87807Series](#)

Termination Interface: Style	Through Hole
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	
Application Specification	AS-87631-018
Product Specification	PS-87805-006
Sales Drawing	SD-87807-001

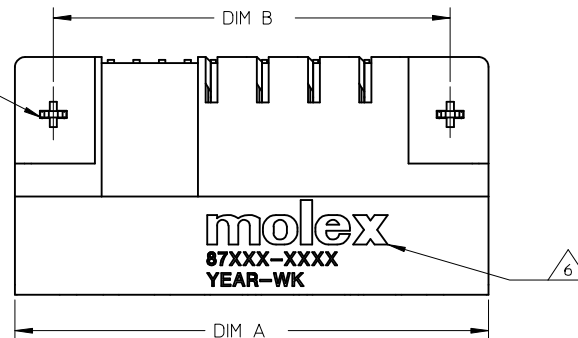
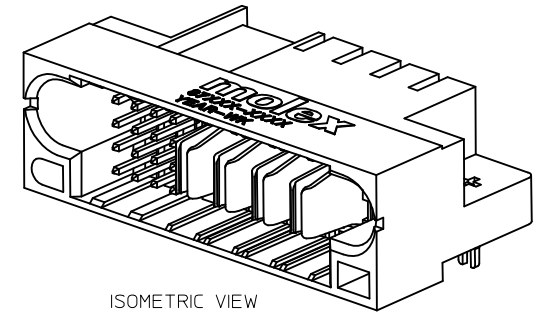
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

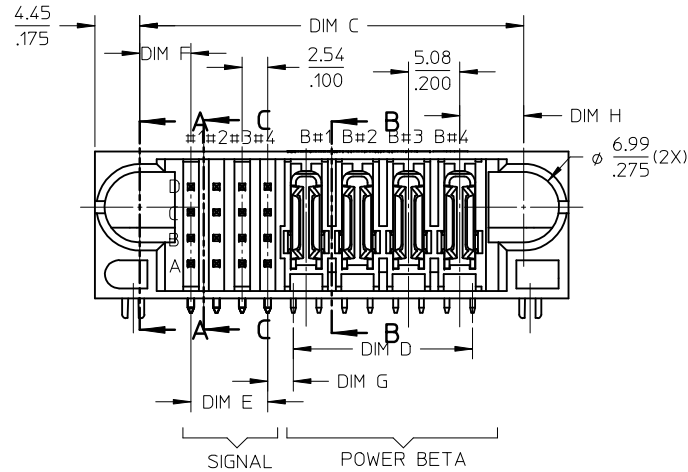
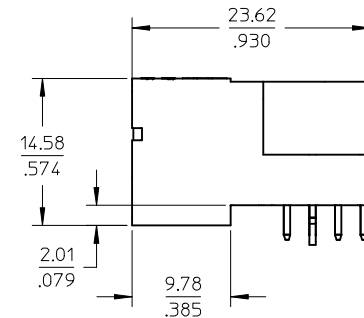


SCREWMOUNT OPTION
(SEE TABLE/SHEET 3)

REFER TO OPTION AT
TABLE/SHEET 3



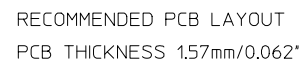
ISOMETRIC VIEW



NOTES:

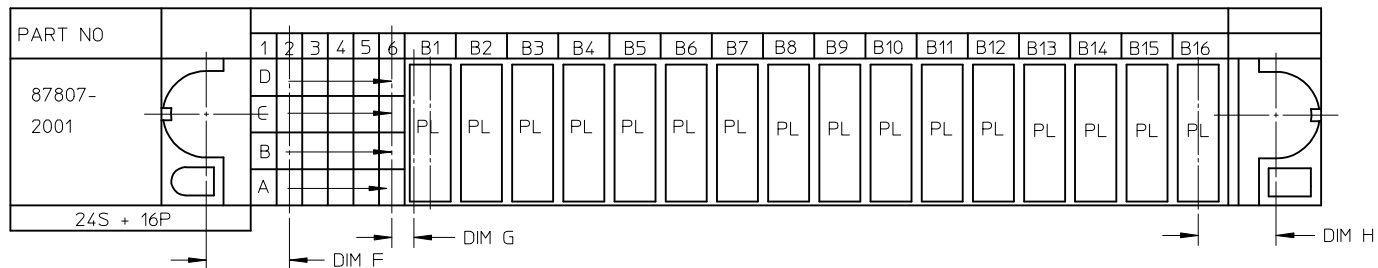
1. MATERIALS: HOUSING - LCP, GLASS FILLED, UL94V-0,
COLOUR: BLACK
POWER PINS - COPPER ALLOY
SIGNAL PINS - COPPER ALLOY
BOARDLOCK - COPPER ALLOY
2. FINISHES: POWER & SIGNAL PINS:
SELECTIVE GOLD IN CONTACT AREA.
THICKNESS= 0.76 MICROMETER/ 30 MICROINCH MINIMUM
SELECTIVE TIN ALLOY IN THE PC TAIL AREA
THICKNESS= 2.54 MICROMETER/100 MICROINCH MINIMUM
NICKEL OVERALL.
3. PRODUCT SPECIFICATION: PS-87805-006.
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.
 - 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.
8. 16 SIGNAL-4P BETA CONFIGURATION IS SHOWN FOR ILLUSTRATION.
9. 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	2009/03/27 2009/03/30 2009/03/30	DESCRIPTION	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				4 PLACES 3 PLACES 2 PLACES 1 PLACE ANGULAR ± 3 °	mm INCH	DRAWN BY NRVITTAP		DATE 2004/03/26	TITLE POWER CONNECTOR HEADER 5.08MM VERSION S-P(B), R/A, T/H	
						CHECKED BY		DATE		
						BHLOW		2004/04/14		
						APPROVED BY		DATE		
						SCLOW		2004/04/19		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO. SD-87807-001		SHEET NO. 1 OF 3				
C5	REV			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



fb_frame_A3_P_AM_T
Rev. E 2006/04/15

	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					



ADD P/N(87807-2011) EC NO: S2009-0688 DRWN:YCHONG 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	MOLEX MOLEX INCORPORATED	SHEET NO. 3 OF 3		
			4 PLACES	± ---	± ---	CHECKED BY	DATE					
			3 PLACES	± ---	± .010	BHLOW	2004/04/14					
			2 PLACES	± 0.25	± ---	APPROVED BY	DATE					
			1 PLACE	± ---	± ---	SCLOW	2004/04/19					
			ANGULAR ± 3 °			MATERIAL NO.		DOCUMENT NO.				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3		SEE TABLE SD-87807-001				
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						