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Part Number: [0876061001](#)
Status: **Active**
Overview: [extreme_powerplus_ssi](#)
Description: 6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ (SSI) DPS Header, Through Hole, Right Angle, Screw Mount, Power Alpha 1, Signal 24, Power Beta 1, B4 Recessed Signal Pin, Short Blade, Lead-free

Documents:
[3D Model](#) [Product Specification PS-87606-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General
Product Family PCB Headers
Series [87606](#)
Application Board-to-Board
Comments Recessed Signal Pin : B4|Short Blade
Overview [extreme_powerplus_ssi](#)
Product Name EXTreme PowerPlus™

Physical
Breakaway No
Circuits (Loaded) 26
Circuits Detail Power Alpha 1, Signal 24, Power Beta 1
Color - Resin Black
Durability (mating cycles max) 100
First Mate / Last Break Yes
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 Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.57 mm
Packaging Type Tray
Pitch - Mating Interface (in) 0.100 In
Pitch - Mating Interface (mm) 2.54 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 Yes
Polarized to PCB Yes
Shrouded Fully
Stackable No
Surface Mount Compatible (SMC) No
Temperature Range - Operating -20°C to +105°C
Termination Interface: Style Through Hole

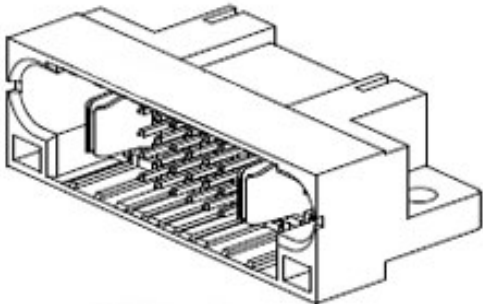


image - Reference only

Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
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
[87606Series](#)

Mates With
[87607](#) PCB Receptacle with Beveled Metal Pins. [87695](#) PCB Receptacle with Press-fit PC Tails

Electrical

Current - Maximum per Contact	2.5A, 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-87606-002
Sales Drawing	SD-87606-015

This document was generated on 05/25/2010

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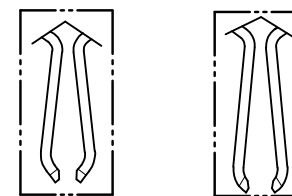
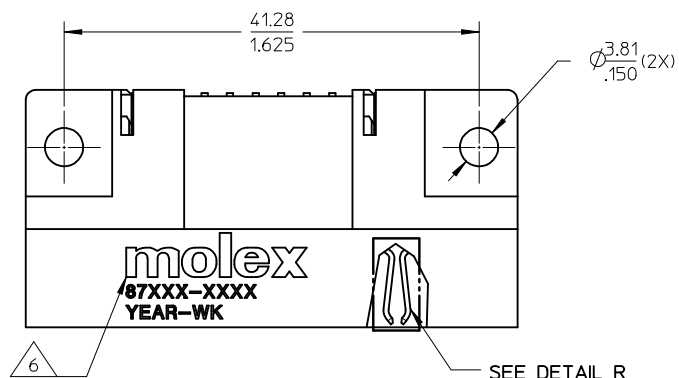
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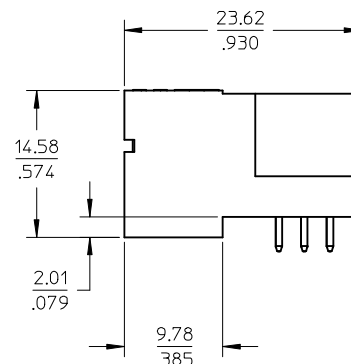
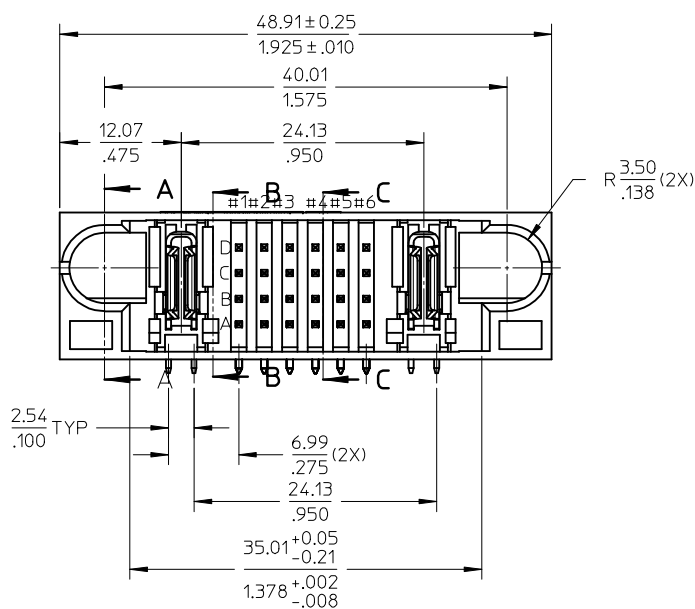
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SHORT BLADE OPTION LONG BLADE OPTION

DETAIL R

(SEE TABLE FOR BLADE OPTION)



NOTES:

1. MATERIALS: HOUSING - LCP, GLASS FILLED, UL94V-0, COLOR: BLACK
POWER PINS - COPPER ALLOY
SIGNAL PINS - COPPER ALLOY
2. FINISHES: POWER & SIGNAL PINS:
SELECTIVE GOLD IN CONTACT AREA.
THICKNESS= 0.76 MICROMETER/ 30 MICROINCH MINIMUM
SELECTIVE TIN IN THE PC TAIL AREA
THICKNESS= 2.54 MICROMETER/100 MICROINCH MINIMUM
WITH 1.27µm MINIMUM NICKEL UNDERPLATE OVERALL.
3. PRODUCT SPECIFICATION: PS-87606-002
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 (Sn) OVER 0.03/.001 TO 0.08/.003 COPPER PLATING TO ACHIEVE 1.02±0.08/.040±.003 HOLE.

CORRECT PCB HOLE SIZE EC NO: S2009-0475 DRWN:SKANG CHKD:ATSEE APPR:MLONG 2009/01/16 2009/01/20 2009/02/05	QUALITY SYMBOLS
	▽=0
	▽=0
	DESCRIPTION
	REV
	D2

QUALITY SYMBOLS
▽=0
▽=0
DESCRIPTION
REV
D2

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .005
2 PLACES	± 0.13	± .010
1 PLACE	± 0.25	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM/IN	
DRAWN BY	DATE
BHLOW	2002/12/02
CHECKED BY	DATE
PTLIM	2002/12/09
APPROVED BY	DATE
SKTOH	2002/12/10
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE	DESIGN UNITS		THIRD ANGLE PROJECTION
NTS	METRIC		
TITLE			
DPS CONNECTOR, HEADER 1P-24S-1P CONFIG R/A, T/H, SCREW MOUNT			
	MOLEX INCORPORATED		
DOCUMENT NO.			SHEET NO.
SD-87606-015			1 OF 3
ALL INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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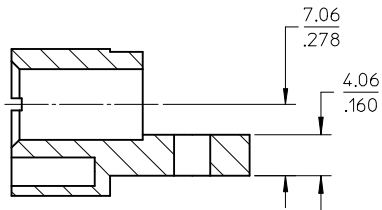
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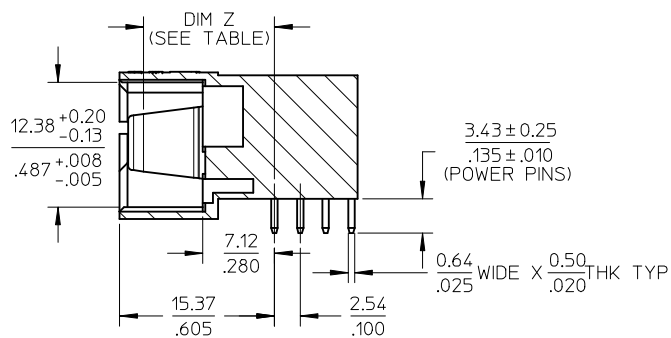
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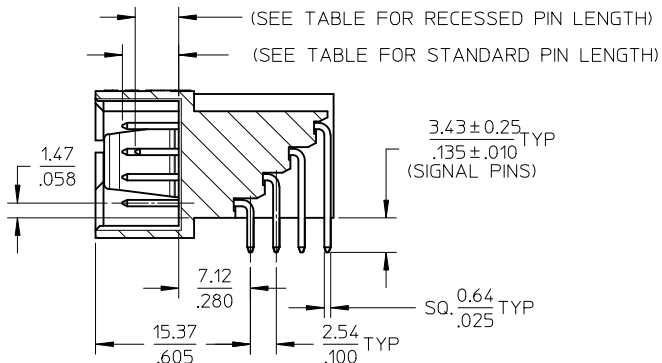
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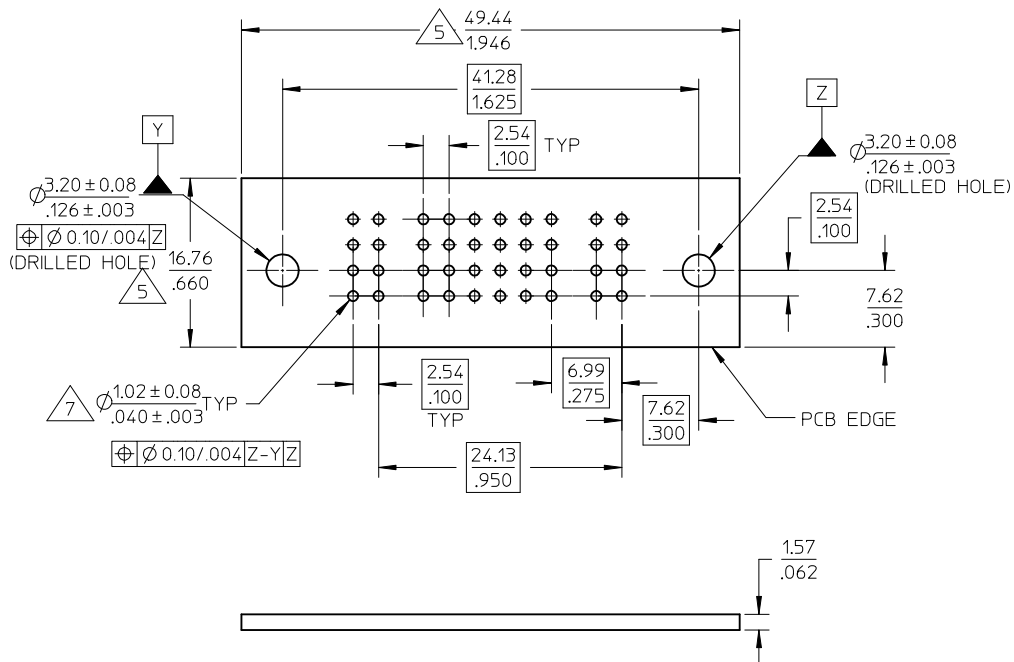
SECTION A-A



SECTION B-B
(LOCKING DETAIL NOT SHOWN)



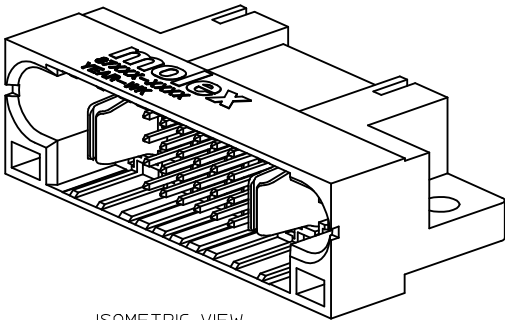
SECTION C-C
(LOCKING DETAIL NOT SHOWN)



CORRECT PCB HOLE SIZE EC NO: S2009-0475 DRWN:SKANG 2009/01/16 CHKD:ATSEE 2009/01/20 APPR:MLONG 2009/02/05 REV			DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN			SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION ⊙ ◻		
D2					mm		INCH		DRAWN BY BHLOW		DATE 2002/12/02		TITLE DPS CONNECTOR, HEADER 1P-24S-1P CONFIG R/A, T/H, SCREW MOUNT molex MOLEX INCORPORATED		
					4 PLACES		± --- ± ---		CHECKED BY		DATE				
					3 PLACES		± --- ± .005		PTLIM		2002/12/09				
					2 PLACES		± 0.13 ± .010		APPROVED BY		DATE				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			1 PLACE		± 0.25 ± ---		SKTOH		2002/12/10		DOCUMENT NO. SD-87606-015 SHEET NO. 2 OF 3				
			ANGULAR ± 3 °		MATERIAL NO.		SEE TABLE								
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										

9 8 7 6 5 4 3 2 1

10		9		8		7		6		5		4		3		2		1					
PART NUMBER	P-S-P CONFIGURATION			POWER BLADE OPTIONS			STANDARD SIGNAL		RECESSED SIGNAL PIN			PACKAGING											
	POWER	ALHPA	SIGNAL	POWER	BETA	TYPE	DIM	Z	PIN	LENGTH	PIN								LENGTH	LOCATION			
87606-1001	1		24	1		SHORT CONTACT	13.32	/	524	5.59	/	220							4.32	/	170	B4	TRAY
87606-2002	1		24	1		LONG CONTACT	14.12	/	556	6.86	/	270							5.59	/	220	B4	TRAY
87606-2003	1		24	1		LONG CONTACT	14.12	/	556	6.45	/	254							4.32	/	170	C1,C6	TRAY
87606-2004	1		24	1		LONG CONTACT	14.12	/	556	6.86	/	270							5.59	/	220	A1,A6,D1,D6	TRAY
87606-2005	1		24	1		LONG CONTACT	14.12	/	556	6.86	/	270	5.59	/	220	A2	TRAY						



ISOMETRIC VIEW

A	CORRECT PCB HOLE SIZE EC NO: S2009-0475 DRWN:SKANG 2009/01/16 CHKD:ATSEE 2009/01/20 APPR:MLONG 2009/02/05 D2		REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
								DRAWN BY DATE		TITLE DPS CONNECTOR, HEADER 1P-24S-1P CONFIG R/A, T/H, SCREW MOUNT			
								CHECKED BY DATE					
						4 PLACES ± --- ± ---		BHLW 2002/12/02		MOLEX MOLEX INCORPORATED			
						3 PLACES ± --- ± .005		PTLIM 2002/12/09					
						2 PLACES ± 0.13 ± .010		APPROVED BY DATE					
						1 PLACE ± 0.25 ± ---		SKTOH 2002/12/10		MATERIAL NO.		DOCUMENT NO.	
ANGULAR ± 3 °		SEE TABLE		SD-87606-015		3 OF 3							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

1b_frame_A3_P_AM_T Rev. E 2006/04/15	9	8	7	6	5	4	3	2	1
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