

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0878054001

Status:

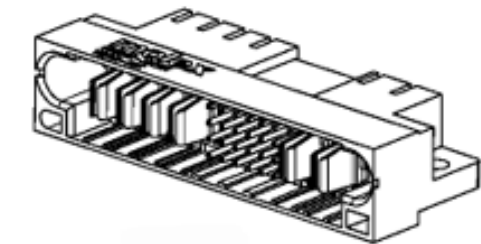
Active

Overview:

extreme_powerplus_ssi

Description:

5.08mm (.200") Pitch Power Alpha, 2.54mm (.100") Pitch Signal, 6.35mm (.250") Pitch Power Beta, EXTreme PowerPlus™ P-S-P Header, Through Hole, Right Angle, 30 Circuits, Power Alpha 4, Signal 24, Power Beta 2, Recessed Signal Pins A6, B3, Screw Mount, Leadf



Series

image - Reference only

Documents:

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

Agency Certification

CSA

LR19980

General

Product Family

Series

Application

Comments

Overview

Product Name

PCB Headers

87805

Board-to-Board

Recessed Signal Pin Location at: A6, B3

extreme_powerplus_ssi

EXTreme PowerPlus™

Physical

Breakaway

Circuits (Loaded)

Circuits Detail

Color - Resin

Durability (mating cycles max)

First Mate / Last Break

Flammability

Glow-Wire Compliant

Guide to Mating Part

Keying 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

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

Shrouded

Stackable

Temperature Range - Operating

No

30

Power Alpha 4, Signal 24, Power Beta 2

Black

100

Yes

94V-0

No

Yes

Yes

Copper Alloy

Gold

Tin

High Temperature Thermoplastic

4

Right Angle

0.135 In

3.43 mm

No

Yes

Tray

0.100 In, 0.200 In

2.54 mm, 5.08 mm

30

0.76

100

2.54

Yes

Yes

Fully

No

-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
87805Series

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-87805-010

This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

F

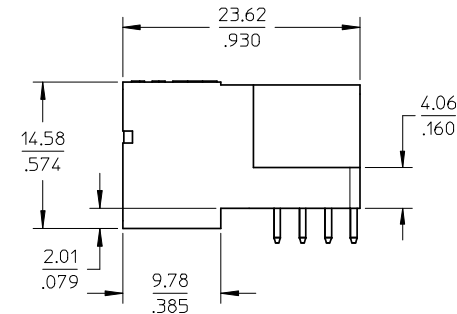
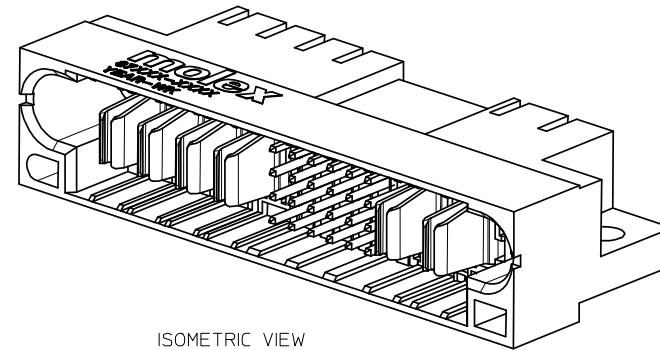
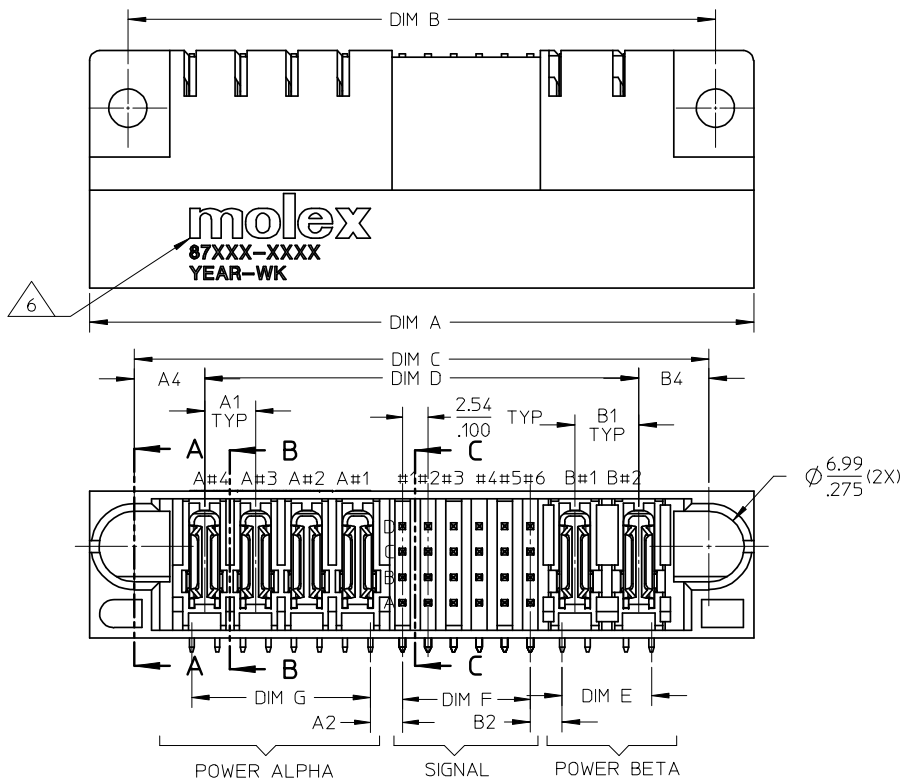
E

D

C

B

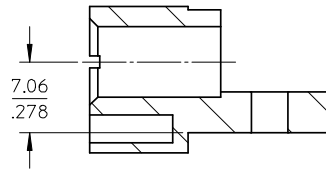
A



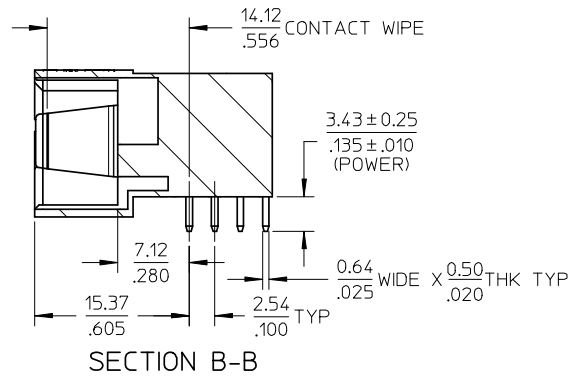
NOTES:

1. MATERIALS: HOUSING - LCP, GLASS FILLED, UL94V-0, COLOUR: 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 ALLOY IN THE PC TAIL AREA
THICKNESS= 2.54 MICROMETER/100 MICROINCH MINIMUM WITH
1.27 μ m MINIMUM NICKEL UNDERPLATE 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 $\pm$ 0.08/.040 $\pm$.003 HOLE.
8. 4P ALPHA- 24 SIGNAL-2P BETA CONFIGURATION IS SHOWN
FOR ILLUSTRATION.

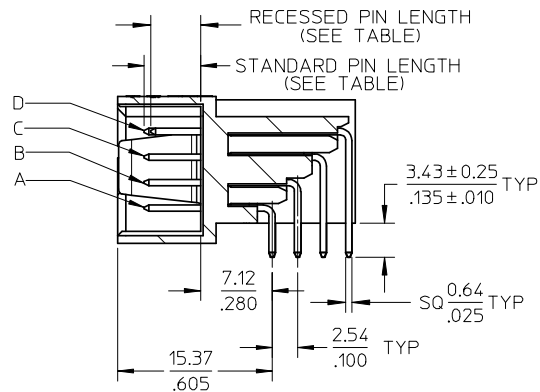
PDR#S-001793-00-00			QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: S2008-0944			=0		mm INCH		MM/IN		NTS		METRIC			
2008/05/06			=0		4 PLACES ± --- ± ---		DRAWN BY DATE		TITLE		POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, .200 VERSION			
2008/05/07					3 PLACES ± --- ± .010		BHLW 2003/05/27							
2008/05/07					2 PLACES ± 0.25 ± ---		CHECKED BY DATE							
2008/05/07					1 PLACE ± --- ± ---		PTLIM 2003/06/11				MOLEX INCORPORATED			
2008/05/07					ANGULAR ± 3 °		APPROVED BY DATE							
2008/05/07							SKTOH 2003/06/13		DOCUMENT NO.		SHEET NO.			
2008/05/07					DRAFT WHERE APPLICABLE		MATERIAL NO.		SD-87805-010		1 OF 3			
2008/05/07					MUST REMAIN		SEE TABLE							
2008/05/07					WITHIN DIMENSIONS		SIZE							
2008/05/07							A3							
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														
2008/05/07														



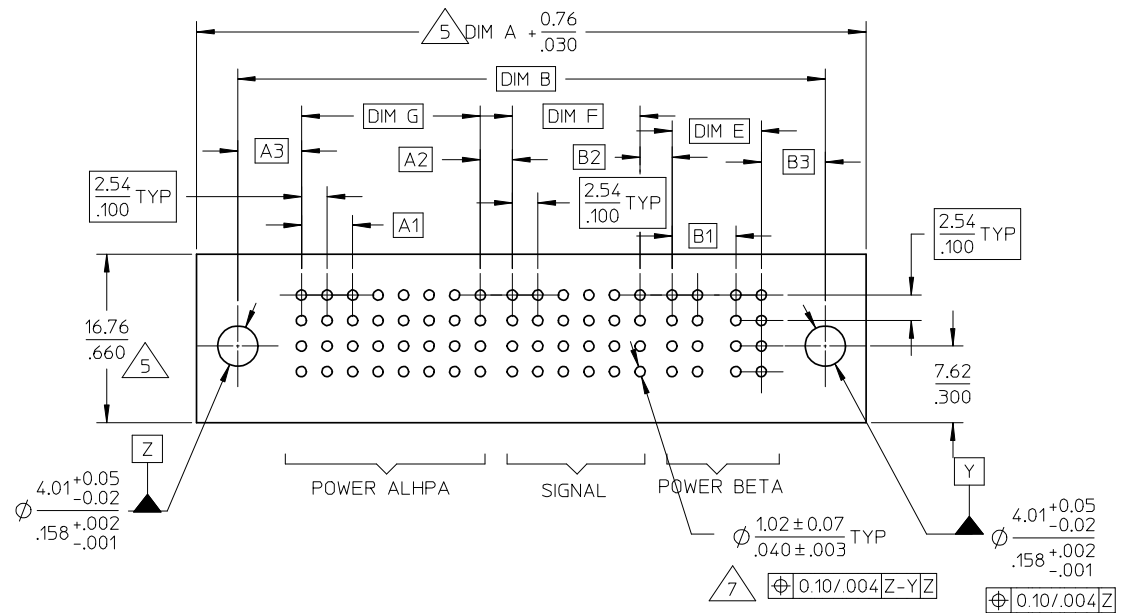
SECTION A-A



SECTION B-B



SECTION C-C



PDR#S-001793-00-00		EC NO: S2008-0944		2008/05/06		2008/05/07		2008/05/07		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS		DESIGN UNITS METRIC		 THIRD ANGLE PROJECTION	
D2		DRWN:SKANG CHKD:ATSEE APPR:MLONG		DESCRIPTION		 =0  =0		4 PLACES		± ---	± ---	DRAWN BY		DATE	TITLE POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, .200 VERSION		 MOLEX INCORPORATED		SHEET NO. 2 OF 3		
								3 PLACES		± ---	± .010	CHECKED BY		DATE							
								2 PLACES		± 0.25	± ---	PTLIM		2003/06/11							
								1 PLACE		± ---	± ---	APPROVED BY		DATE							
										ANGULAR ± 3 °		SKTOH		2003/06/13							
												MATERIAL NO.		DOCUMENT NO.							
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE TABLE		SD-87805-010									
												THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

