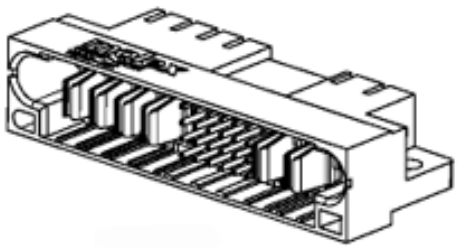
This document was generated on 05/26/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0878054009
Status: Active
Overview: extreme_powerplus_ssi
Description: 5.08mm (.200") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ P(A)-S-P(B) Header, Through Hole, Right Angle, 20 Circuits, Power Alpha 2, Signal 16, Power Beta 2; Recessed Signal Pin at B3, ScrewMount, Lead-free



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	PCB Headers
Series	87805
Application	Board-to-Board
Comments	Recessed Signal Pin Location at: B3
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	20
Circuits Detail	Power Alpha 2, Signal 16, Power Beta 2
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
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

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

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

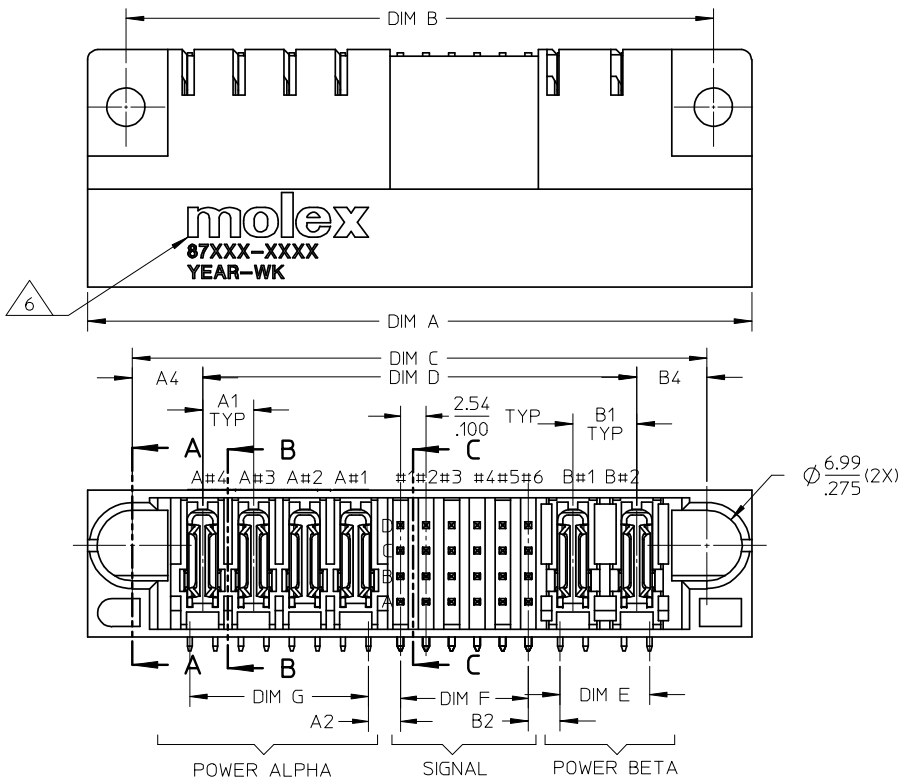
Material Info

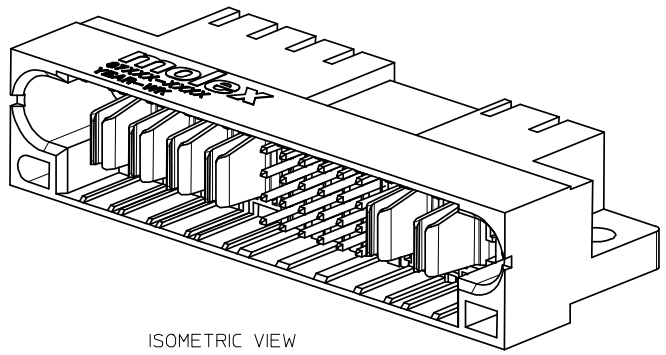
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87805-006
Sales Drawing	SD-87805-010

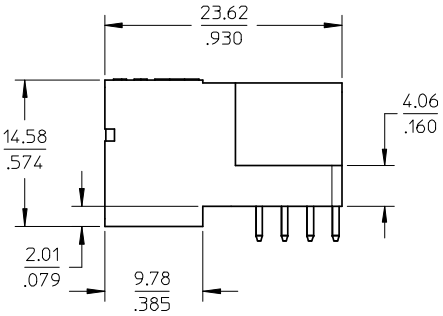
This document was generated on 05/26/2010

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ISOMETRIC VIEW



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
   1.27μm 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±0.08/.040±.003 HOLE.
8. 4P ALPHA- 24 SIGNAL-2P BETA CONFIGUARTION IS SHOWN
   FOR ILLUSTRATION.

PDR#S-001793-00-00			
EC NO: S2008-0944	DRWN:SKANG	CHKD:ATSEE	APPR:MLONG
2008/05/06	2008/05/07	2008/05/07	DESCRIPTION
D2			REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

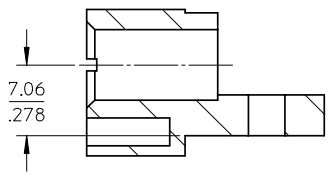
GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

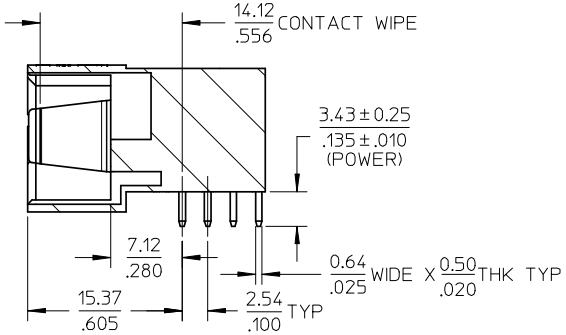
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM/IN
SCALE	NTS
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	BHLOW
DATE	2003/05/27
CHECKED BY	PTLIM
DATE	2003/06/11
APPROVED BY	SKTOH
DATE	2003/06/13
TITLE	POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, .200 VERSION
	MOLEX INCORPORATED
MATERIAL NO.	SEE TABLE
DOCUMENT NO.	SD-87805-010
SHEET NO.	1 OF 3
SIZE	A3

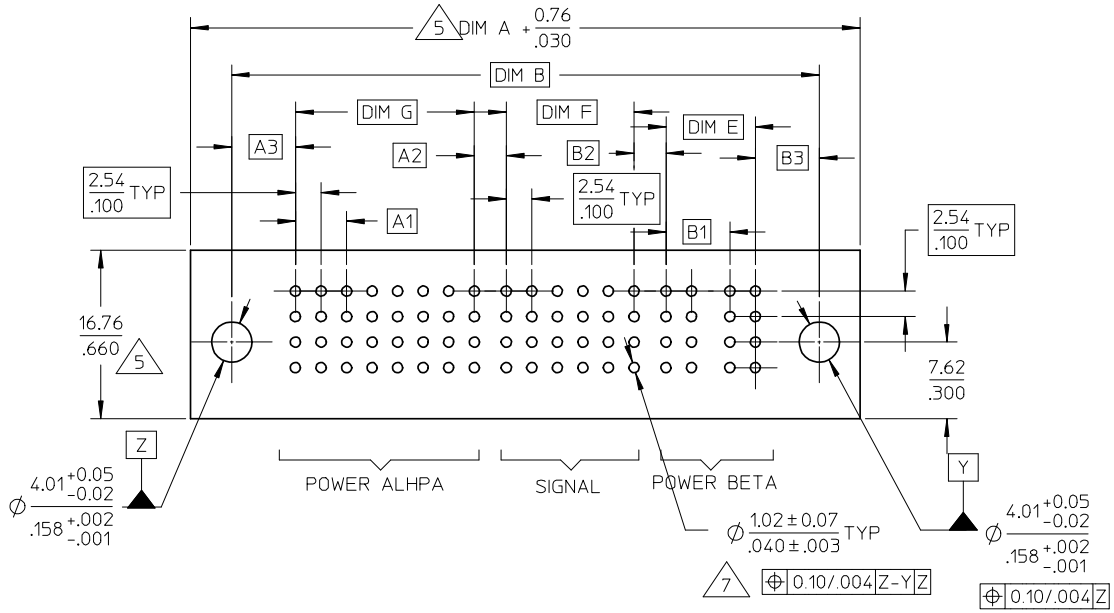
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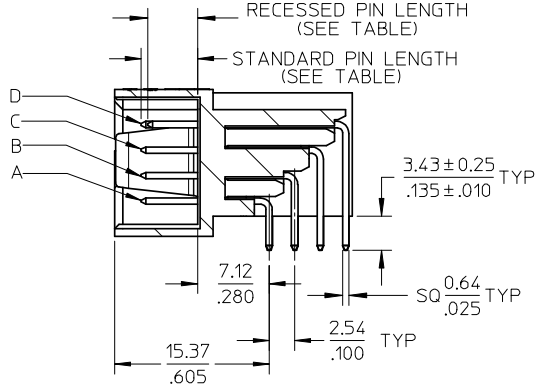


SECTION A-A



SECTION B-B





SECTION C-C

PDR#S-001793-00-00			DESCRIPTION
EC NO: S2008-0944	2008/05/06		
DRWN:SKANG	2008/05/07		
CH'KD:ATSEE	2008/05/07		
APPR:MLONG			
D2			REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN	SCALE: NTS	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION
DRAWN BY: BHLOW DATE: 2003/05/27	TITLE: POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, .200 VERSION		
CHECKED BY: PTLIM DATE: 2003/06/11			
APPROVED BY: SKTOH DATE: 2003/06/13	MOLEX INCORPORATED		
MATERIAL NO.: SEE TABLE	DOCUMENT NO.: SD-87805-010		SHEET NO.: 2 OF 3
SIZE: A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

PART NUMBER	P-S-P CONFIGURATION			DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	STANDARD SIGNAL PIN LENGTH	RECESSED SIGNAL PIN		POWER ALHPA				POWER BETA				PACKAGING
	POWER ALHPA	SIGNAL	POWER BETA									LENGTH	LOCATION	A1	A2	A3	A4	B1	B2	B3	B4	
87805-4001	4	24	2	66.04 / 2.600	58.42 / 2.300	57.15 / 2.250	43.18 / 1.700	8.89 / .350	12.70 / .500	17.78 / .700	6.86/.270	5.59/.220	A6, B3	5.08	3.18	6.35	6.98	6.35	3.18	6.35	6.98	TRAY
87805-4002	4	28	4	77.47 / 3.050	69.85 / 2.750	68.58 / 2.700	54.61 / 2.150	17.78 / .700	15.24 / .600	17.78 / .700	6.86/.270	5.59/.220	B4	5.08	3.18	6.35	6.98	5.08	3.18	6.35	6.98	TRAY
87805-4007	3	20	3	62.33 / 2.450	54.61 / 2.150	53.34 / 2.100	39.37 / 1.550	12.70 / .500	10.16 / .400	12.70 / .500	6.86/.270	NIL	NIL	5.08	3.18	6.35	6.98	5.08	3.18	6.35	6.98	TRAY
87805-4008	2	24	2	54.61 / 2.150	47.00 / 1.850	45.72 / 18.00	31.76 / 1.250	7.62 / .300	12.70 / .500	7.62 / .300	6.86/.270	5.59/.220	A1,A2,B1, B2,D1,D2	5.08	3.18	6.35	6.98	5.08	3.18	6.35	6.98	TRAY
87805-4009	2	16	2	49.53 / 1.950	41.91 / 1.650	40.64 / 1.600	26.68 / 1.050	7.62 / .300	7.62 / .300	7.62 / .300	6.86/.270	5.59/.220	B3	5.08	3.18	6.35	6.98	5.08	3.18	6.35	6.98	TRAY
87805-4010	4	24	4	74.93 / 2.950	67.31 / 2.650	66.04 / 2.600	52.08 / 2.050	17.78 / .700	12.70 / .500	17.78 / .700	6.86/.270	5.59/.220	A1,C1,C2, D1,D2,D6	5.08	3.18	6.35	6.98	5.08	3.18	6.35	6.98	TRAY
87805-4012	3	20	10	104.14 / 4.100	96.52 / 3.800	95.25 / 3.750	80.65 / 3.175	48.26 / 1.900	10.16 / .400	17.78 / .700	6.86/.270	5.59/.220	A1	7.62	3.81	6.98	7.62	5.08	3.18	6.35	6.98	TRAY
87805-4014	4	12	4	67.31 / 2.650	59.69 / 2.350	58.42 / 2.300	44.46 / 1.750	17.78 / .700	5.08 / .200	17.78 / .700	6.86/.270	5.59/.220	C2	5.08	3.18	6.35	6.98	5.08	3.18	6.35	6.98	TRAY

PDR#S-001793-00-00
EC NO: S2008-0944
DRWN:SKANG 2008/05/06
CH'KD:ATSEE 2008/05/07
APPR:MLONG 2008/05/07
DESCRIPTION
REV
D2

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▼=0
Ⓒ=0

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ANGULAR ± 3 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: BHLOW DATE: 2003/05/27
CHECKED BY: PTLIM DATE: 2003/06/11
APPROVED BY: SKTOH DATE: 2003/06/13

TITLE: POWER CONNECTOR HEADER P(A)-S-P(B) CONFIG. R/A, T/H, .200 VERSION

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87805-010
SHEET NO.: 3 OF 3
SIZE: A3

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