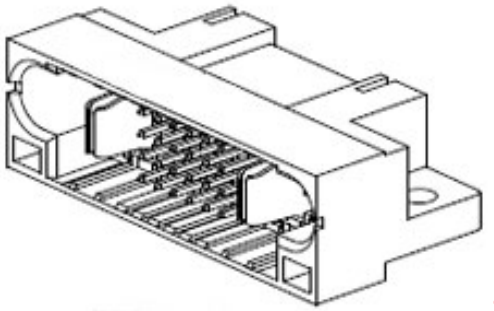
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Part Number: 0876062003
Status: Active
Overview: extreme_powerplus_ssi
Description: 6.35mm (.250") Pitch Power, 2.54mm (.100") Pitch Signal, EXTreme PowerPlus™ (SSI) DPS Header, Through Hole, Right Angle, Screw Mount, Power Alpha 1, Signal 24, Power Beta 1, C1 and C6 Recessed Signal Pins, Long Blade, Lead-free



Series image - Reference only

Documents:

- 3D Model
- Drawing (PDF)
- Product Specification PS-87606-002 (PDF)
- RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	87606
Application	Board-to-Board
Comments	<LI>Long Blade|<LI>Recessed Signal Pins : C1, C6
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

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
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

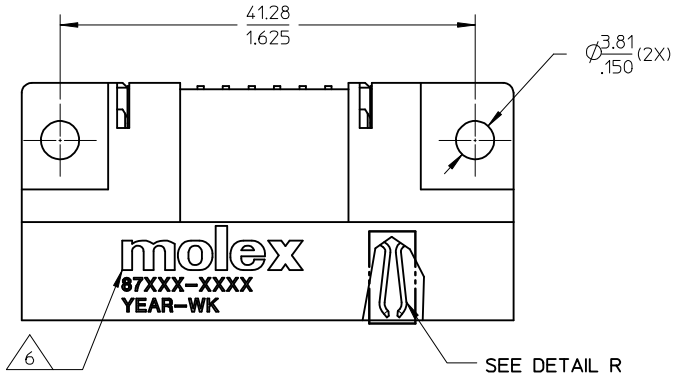
Material Info

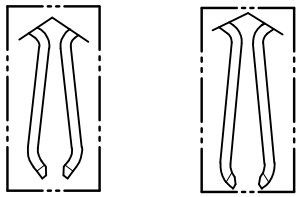
Reference - Drawing Numbers

Application Specification	AS-87631-018
Product Specification	PS-87606-002
Sales Drawing	SD-87606-015

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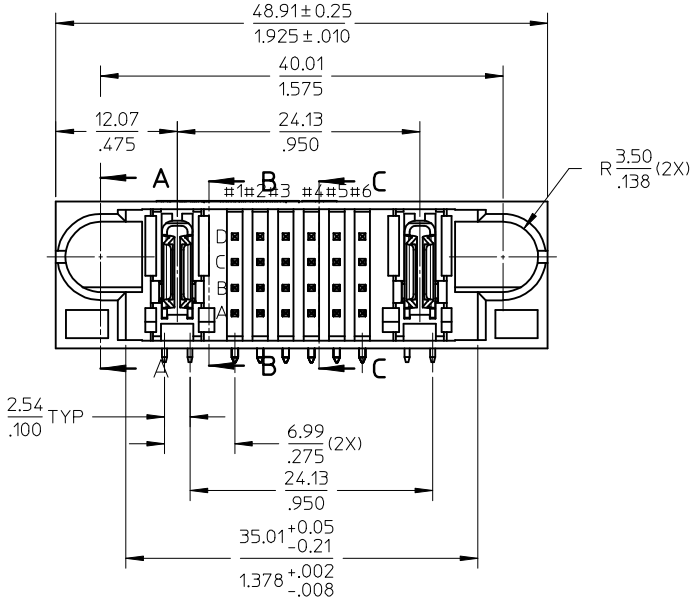


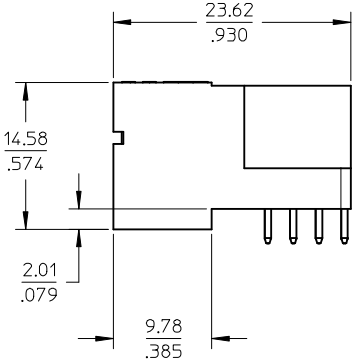


SHORT BLADE OPTION LONG BLADE OPTION

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			DESCRIPTION
EC NO: S2009-0475	2009/01/16		
DRWN:SKANG	2009/01/20		
CHKD:ATSEE	2009/02/05		
APPR:MLONG			
D2			REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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	SCALE: NTS	DESIGN UNITS: METRIC	THIRD ANGLE PROJECTION

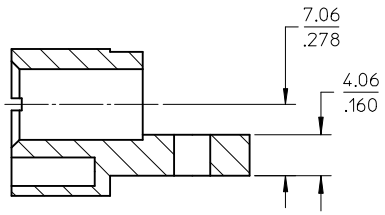
DRAWN BY: BHLOW	DATE: 2002/12/02
CHECKED BY: PTLIM	DATE: 2002/12/09
APPROVED BY: SKTOH	DATE: 2002/12/10
MATERIAL NO.: SEE TABLE	
DOCUMENT NO.: SD-87606-015	SHEET NO.: 1 OF 3

TITLE: DPS CONNECTOR, HEADER 1P-24S-1P CONFIG R/A, T/H, SCREW MOUNT

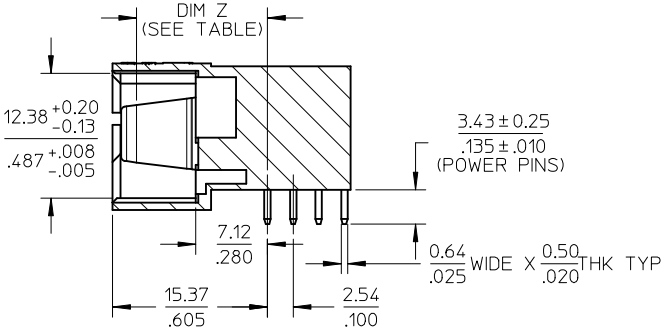
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SIZE A3

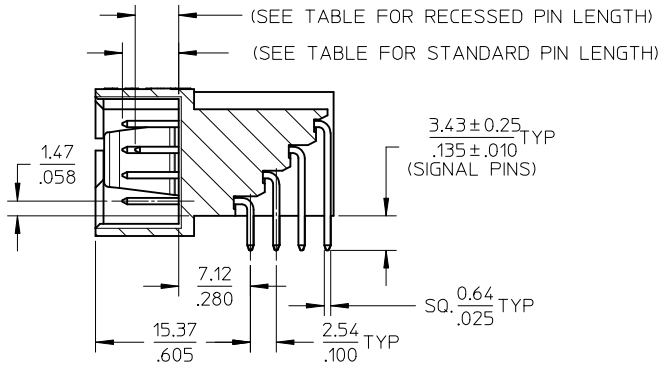
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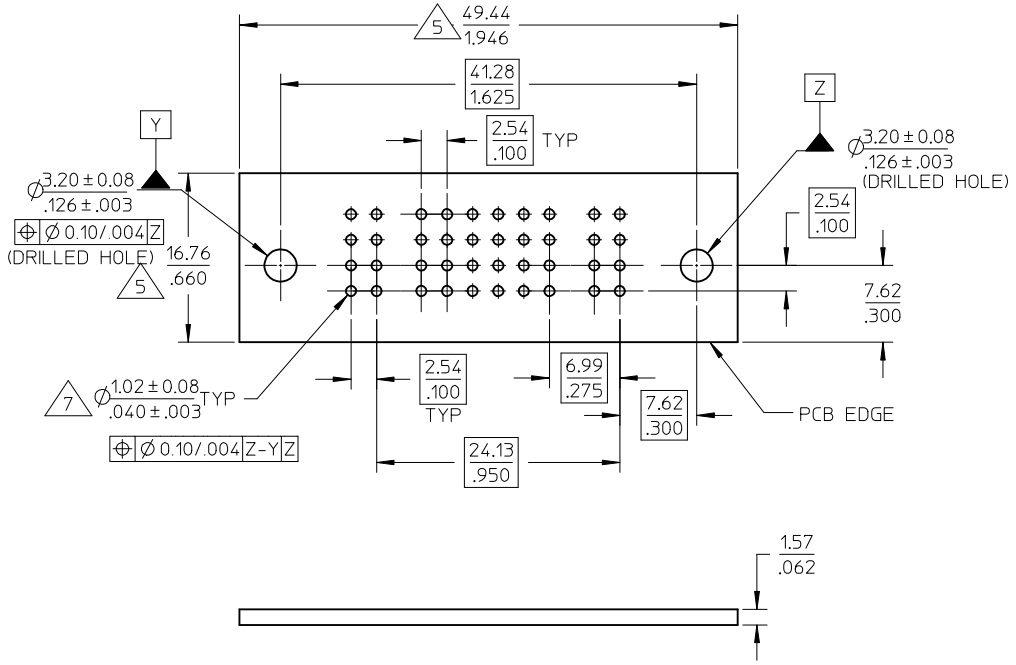
SECTION A-A



SECTION B-B
(LOCKING DETAIL NOT SHOWN)



SECTION C-C
(LOCKING DETAIL NOT SHOWN)



CORRECT PCB HOLE SIZE
EC NO: S2009-0475 2009/01/16
DRWN:SKANG 2009/01/20
CH'KD:ATSEE 2009/02/05
APPR:MLONG
DESCRIPTION
REV
D2

QUALITY SYMBOLS
▼=0
Ⓒ=0

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
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: BHLOW DATE: 2002/12/02
CHECKED BY: PTLIM DATE: 2002/12/09
APPROVED BY: SKTOH DATE: 2002/12/10

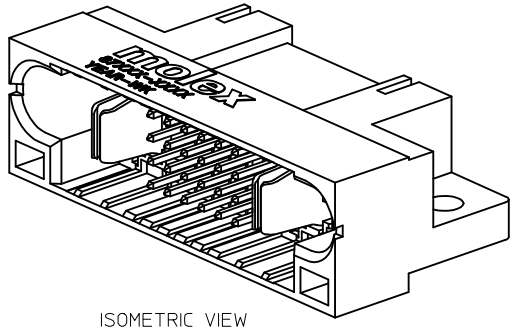
TITLE: DPS CONNECTOR, HEADER 1P-24S-1P CONFIG R/A, T/H, SCREW MOUNT

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87606-015
SHEET NO.: 2 OF 3
SIZE: A3

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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

CORRECT PCB HOLE SIZE
EC NO: S2009-0475 2009/01/16
DRWN:SKANG 2009/01/20
CH'KD:ATSEE 2009/02/05
APPR:MLONG
DESCRIPTION
D2
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

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
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

		DATE
DRAWN BY	BHLOW	2002/12/02
CHECKED BY	PTLIM	2002/12/09
APPROVED BY	SKTOH	2002/12/10

TITLE: DPS CONNECTOR, HEADER 1P-24S-1P CONFIG R/A, T/H, SCREW MOUNT

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87606-015
SHEET NO.: 3 OF 3
SIZE: A3

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