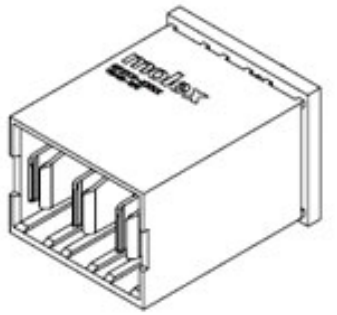
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Part Number: 0780410002
Status: Active
Overview: extreme_powerplus_ssi
Description: 6.35mm (.250") Pitch, EXTreme PowerPlus™ Header, All Power, Through Hole, Vertical, 3 Circuits, with Peg, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87631-006 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	PCB Headers
Series	78041
Application	Board-to-Board
Overview	extreme_powerplus_ssi
Product Name	EXTreme PowerPlus™

Physical

Breakaway	No
Circuits (Loaded)	3
Circuits Detail	All Power
Color - Resin	Black
Durability (mating cycles max)	100
First Mate / Last Break	No
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	No
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.071 In
PCB Thickness Recommended (mm)	1.80 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.250 In
Pitch - Mating Interface (mm)	6.35 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	Closed Ends
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-20°C to +105°C
Termination Interface: Style	Through Hole

Electrical

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
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
78041Series

Current - Maximum per Contact	50A
Voltage - Maximum	250V DC

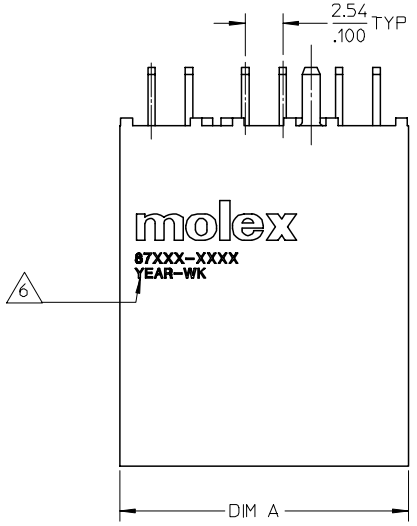
Solder Process Data

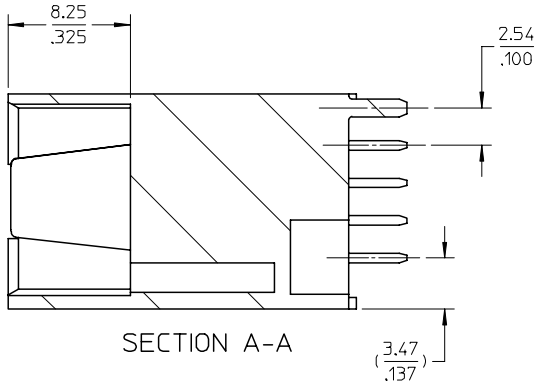
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

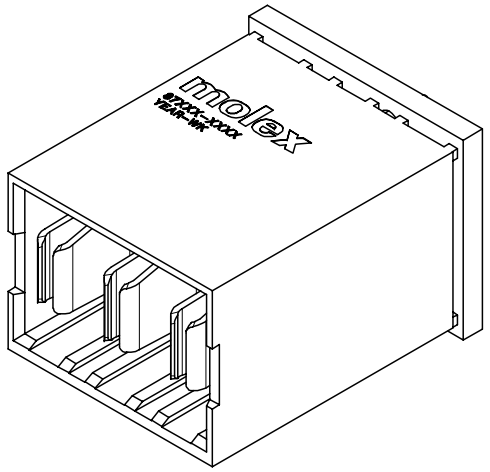
Material Info

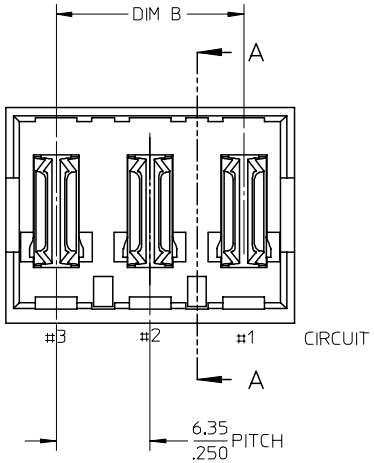
Reference - Drawing Numbers

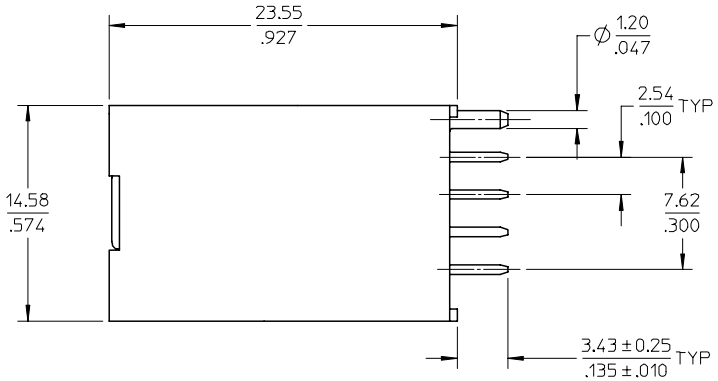
Application Specification	AS-87631-018
Product Specification	PS-87631-006
Sales Drawing	SD-78041-003











REVISED			
EC NO: S2007-0597	2006/12/29		
DRWN:SKANG	2006/12/29		
CHKD:MLONG	2007/01/03		
APPR:SKTOH			
DESCRIPTION			
REV			
A			

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY	DATE
SKANG	2006/12/26
CHECKED BY	DATE
MLONG	2006/12/28
APPROVED BY	DATE
SKTOH	2006/12/28

TITLE: HEADER, POWER CONNECTOR POWER CONFIG. ALL POWER VERTICAL T/H

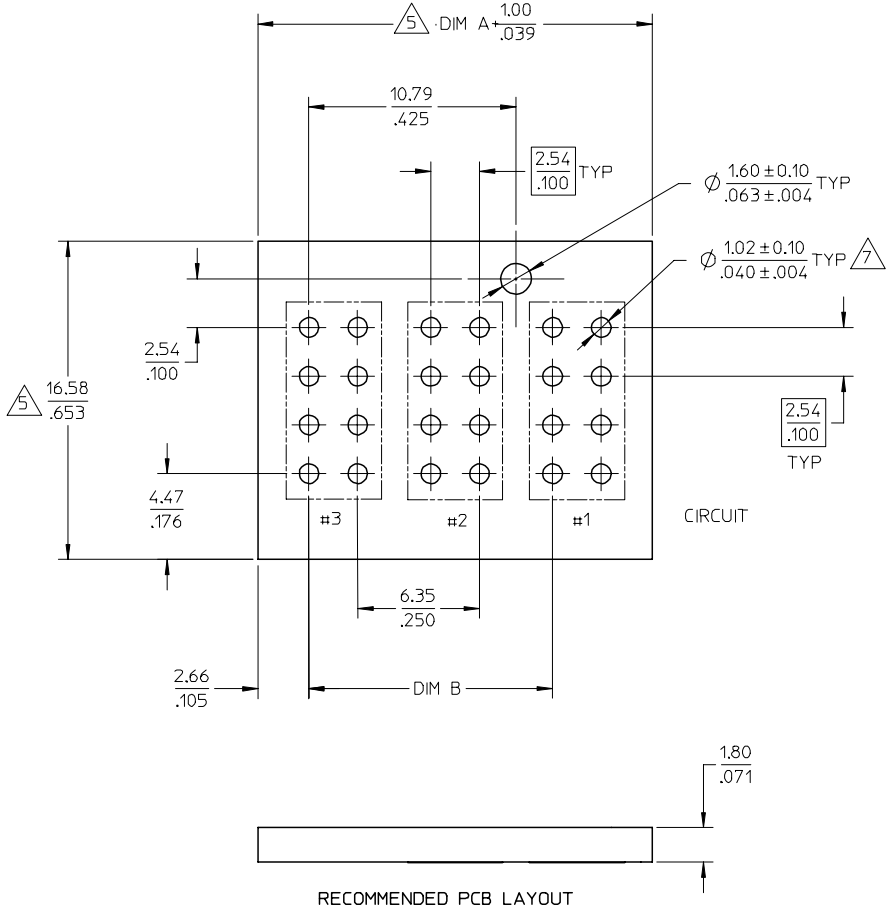
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MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-78041-003	1 OF 2

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PART NUMBER	NO. OF CIRCUITS	DIM A	DIM B	PACKAGING
78041-0002	3	19.55 / .770	12.70 / .500	TRAY



RECOMMENDED PCB LAYOUT

NOTE:
1. MATERIAL: HOUSING - LCP
   GLASS FILLED, UL94V-0, COLOUR: BLACK
   POWER BLADES - COPPER ALLOY
2. FINISHES: POWER - SELECTIVE GOLD IN CONTACT AREA
   THICKNESS= 0.76µm/30µin MINNIMUM
   SELECTIVE TIN IN THE PC TAIL AREA
   THICKNESS= 2.54µm/100µin MINIMUM WITH
   1.27µm MINIMUM NICKEL, UNDERPLATE OVERALL.
3. PRODUCT SPECIFICATION: PS-87631-006.
4. SEE SHEET 2 FOR RECOMMENDED PCB LAYOUT.
5. COMPONENT STAY AWAY ZONE FROM CONNECTOR.
6. MANUFACTURER LOGO, PART NUMBER AND YEAR-WK 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 ACHEIVE 1.02±0.08/.049±.003 HOLE.

REVISED
EC NO: S2007-0597 2006/12/29
DRWN:SKANG 2006/12/29
CH'KD:MLONG 2007/01/03
APPR:SKTOH
DESCRIPTION
REV A

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
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: SKANG DATE: 2006/12/26
CHECKED BY: MLONG DATE: 2006/12/28
APPROVED BY: SKTOH DATE: 2006/12/28

TITLE: HEADER, POWER CONNECTOR POWER CONFIG. ALL POWER VERTICAL T/H

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-78041-003
SHEET NO.: 2 OF 2
SIZE: A3

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