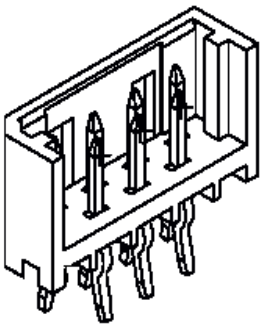
This document was generated on 05/25/2010

# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0878721105
**Status:** Active
**Overview:** extreme_powerplus_ssi
**Description:** 1.25mm (.049") Pitch Board-to-Board Header, Through Hole, Friction Lock, with Kinked PC Tails, 5 Circuits, Tin (Sn) Overall, Tube Packaging, Lead-free



*Series image - Reference only*

**Documents:**

3D Model
Drawing (PDF)
Product Specification PS-87871-006 (PDF)
RoHS Certificate of Compliance (PDF)

## General

| | |
|---|---|
| Product Family | PCB Headers |
| Series | 87872 |
| Application | Board-to-Board |
| Comments | ZIGZAG |
| Overview | extreme_powerplus_ssi |
| Product Name | N/A |

## Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 5 |
| Circuits (maximum) | 5 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 10 |
| First Mate / Last Break | No |
| Glow-Wire Compliant | No |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| Lock to Mating Part | Yes |
| Mated Height (in) | 0.274 In |
| Mated Height (mm) | 6.95 mm |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | High Temperature Thermoplastic |
| Number of Rows | 2 |
| Orientation | Vertical |
| PC Tail Length (in) | 0.138 In |
| PC Tail Length (mm) | 3.50 mm |
| PCB Locator | No |
| PCB Retention | Yes |
| PCB Thickness Recommended (in) | 0.062 In |
| PCB Thickness Recommended (mm) | 1.60 mm |
| Packaging Type | Tube |
| Pitch - Mating Interface (in) | 0.049 In |
| Pitch - Mating Interface (mm) | 1.25 mm |
| Plating min: Mating (µin) | 120.00 |
| Plating min: Mating (µm) | 3.000 |
| Plating min: Termination (µin) | 120.00 |
| Plating min: Termination (µm) | 3.00 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| Shrouded | Partial |
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -40°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**
87872Series

**Mates With**
878712209 Board-to-Board Receptacle

| | |
|---|---|
| Termination Interface: Style | Through Hole - Kinked Pin |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 2A |
| Voltage - Maximum | 125V |

## Material Info

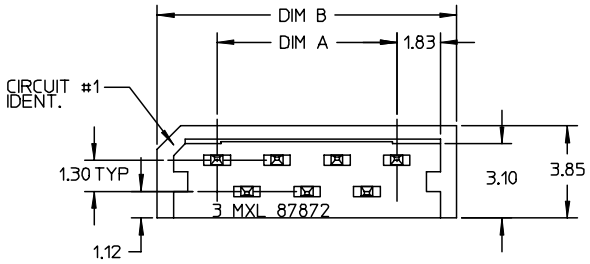
## Reference - Drawing Numbers

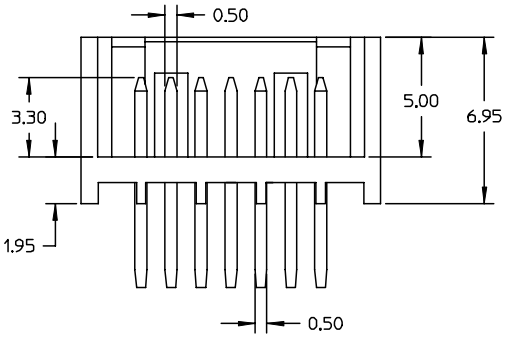
| | |
|---|---|
| Product Specification | PS-87871-006 |
| Sales Drawing | SD-87872-001 |

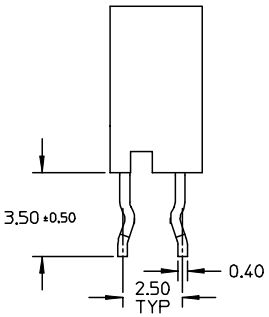
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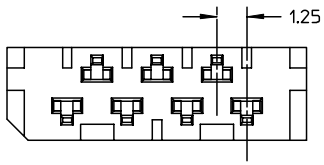
87872

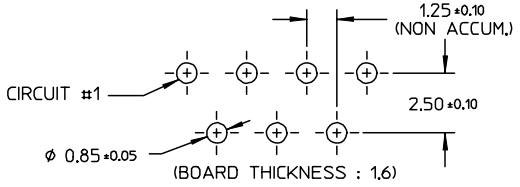
| PART NUMBER | CKTS SIZE | DIM A | DIM B |
|---|---|---|---|
| 87872-1103 | 3 | 2.5 | 7.5 |
| 87872-1105 | 5 | 5.0 | 10.0 |
| 87872-1107 | 7 | 7.5 | 12.5 |
| 87872-1109 | 9 | 10.0 | 15.0 |
| 87872-1111 | 11 | 12.5 | 17.5 |
| 87872-1113 | 13 | 15.0 | 20.0 |
| 87872-1115 | 15 | 17.5 | 22.5 |
| 87872-1117 | 17 | 20.0 | 25.0 |
| 87872-1119 | 19 | 22.5 | 27.5 |
| 87872-1121 | 21 | 25.0 | 30.0 |
| 87872-1123 | 23 | 27.5 | 32.5 |



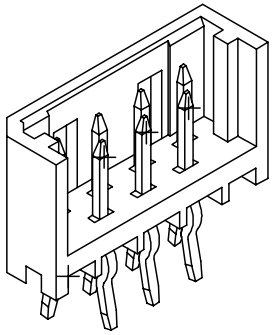




RECOMMENDED PCB LAYOUT



NOTES :

1. MATERIAL :
   HOUSING : THERMOPLASTIC UL94 V-0
   TERMINAL : BRASS
   PLATING : 2.00um(80uin) MIN TIN OVER
   1.00um(40uin) MIN COPPER OVERALL
2. PART MATEABLE TO 87871-****

EC NO: S2004-0671 2004/04/14
DRWN:BHLOW 2004/04/14
CH'KD:PTLIM 2004/04/19
APPR: SKTOH
DESCRIPTION
A
REV

QUALITY SYMBOLS
▼ = 0
▽C = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± --- |
| 2 PLACES | ± 0.20 | ± --- |
| 1 PLACE | ± --- | ± --- |
| ANGULAR ± 3 ° | | |

DRAFT WHERE APPLICABLE
MUST REMAIN WITHIN DIMENSIONS

SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
REVISE ON CAD ONLY
DIMENSION STYLE: MM ONLY
DRAWN BY: BHLOW DATE: 2004/04/01
CHECKED BY: PTLIM DATE: 2004/04/14
APPROVED BY: SCLOW DATE: 2004/04/14

TITLE
ZIGZAG 1.25MM , BTB
HEADER WITH
FRICTION LOCK (LEADFREE)

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87872-001
SHEET NO.: 1 OF 1

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