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Part Number: **0474170001**
Status: **Active**
Overview: battery connectors
Description: 2.00mm (.079") Pitch Battery Connector, SMT, Contact Width 0.70mm (.028"), Working Height 2.95mm (.116"), 4 Circuits, Lead-free

Documents:

[3D Model](#) [Product Specification PS-47182-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

| | |
|----------------|---------------------------|
| Product Family | PCB Headers |
| Series | <u>47417</u> |
| Application | Board-to-Board |
| Overview | <u>battery connectors</u> |
| Product Name | Battery Connector |

Physical

| | |
|--------------------------------|-----------------------|
| Breakaway | No |
| Circuits (Loaded) | 4 |
| Circuits (maximum) | 4 |
| Durability (mating cycles max) | 10,000 |
| First Mate / Last Break | No |
| Glow-Wire Compliant | No |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| Lock to Mating Part | None |
| Material - Plating Mating | Gold |
| Number of Rows | 1 |
| Orientation | Vertical |
| PCB Locator | No |
| PCB Retention | None |
| Packaging Type | Embossed Tape on Reel |
| Pitch - Mating Interface (in) | 0.079 In |
| Pitch - Mating Interface (mm) | 2.00 mm |
| Pitch - Term. Interface (in) | 0.079 In |
| Pitch - Term. Interface (mm) | 2.00 mm |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Shrouded | No |
| Stackable | No |
| Surface Mount Compatible (SMC) | Yes |
| Temperature Range - Operating | -40°C to +85°C |
| Termination Interface: Style | Surface Mount |

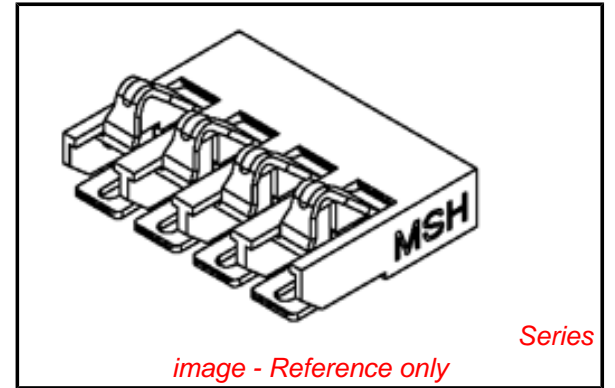
Electrical

| | |
|-------------------------------|------------|
| Current - Maximum per Contact | 1A |
| Voltage - Maximum | 200V (RMS) |

Solder Process Data

| | |
|--|---------------------------|
| Duration at Max. Process Temperature (seconds) | 30 |
| Lead-free Process Capability | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature | 2 |
| Process Temperature max. C | 250 |

Material Info



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status

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
[47417Series](#)

Reference - Drawing Numbers

Packaging Specification

Product Specification

Sales Drawing

PK-47182-001

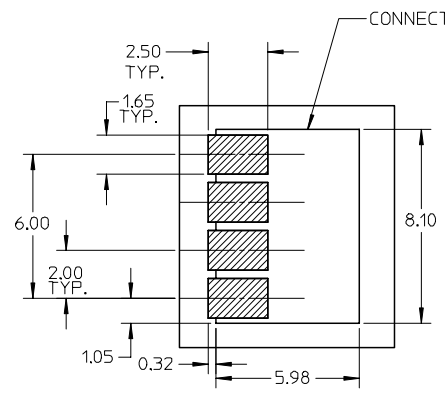
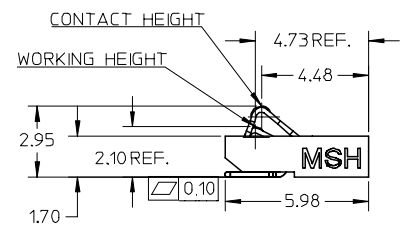
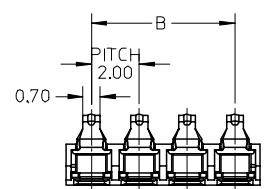
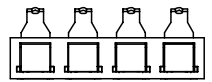
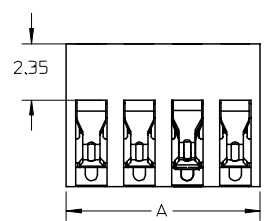
PS-47182-001

SD-47417-001

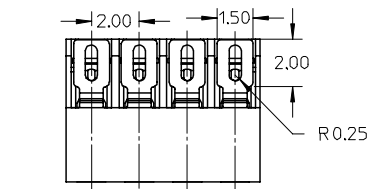
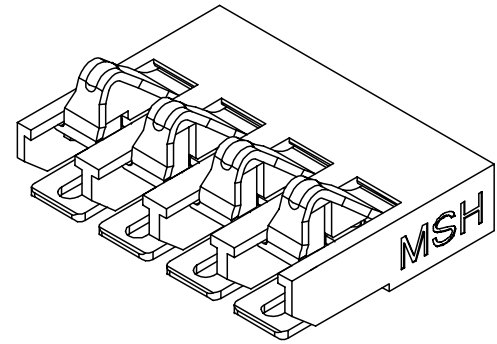
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| 47417 | | | | | |
|------------|------|------|------|------------|------------|
| ASS. P/N | CKTS | A | B | HOUSING | TERMINAL |
| 47417-1001 | 2 | 4.10 | 2.00 | 47182-1002 | 47417-0003 |
| 47417-2001 | 3 | 6.10 | 4.00 | 47182-2002 | 47417-0003 |
| 47417-0001 | 4 | 8.10 | 6.00 | 47182-0002 | 47417-0003 |



RECOMMENDED FOOT PRINT



NOTE:

- MATERIAL:
HOUSING: HIGH TEMPERATURE THERMOPLASTIC, COLOR :BLACK
TERMINAL: COPPER ALLOY.
- FINISH:
CONTACT AREA: 0.75 MICRON GOLD MIN OVER 1.25 MICRON NICKEL MIN.
SOLDER AREA: GOLD FLASH (0.075-0.125 MICRON) OVER 1.25 MICRON NICKEL MIN.
REST AREA: 1.25 MICRON NICKEL MIN.
- COPLANARITY: 0.1 MAX AMONG THESE SOLDER TAILS.
- PRODUCT SPECIFICATION: PS-47182-001
- WORKING HEIGHT: 2.10mm REF.

| | | | | | | | | | | | |
|--|-------------------------------|-------------------------------|----------------------|---------------------------------------|---|----------------------------|------------------------|---|------------------------------|--|--|
| NEW RELEASE EC NO: SH2006-0598 DRWN: LSHEN 2006/04/25 CHKD: 2006/04/25 APPR: XIXU 2006/04/26 | DESCRIPTION ▼ = 0 ▽ = 0 | QUALITY SYMBOLS | | GENERAL TOLERANCES (UNLESS SPECIFIED) | | SCALE 5:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY | | |
| | | | | mm | INCH | DIMENSION STYLE MM ONLY | | TITLE 2.0MM PITCH 4 CIRCUITS 0.7MM CONTACT WIDTH BATTERY CONNECTOR | | | |
| | | 4 PLACES | ± --- | ± --- | DRAWN BY LHSHEN | | DATE 2006/02/18 | | MATERIAL NO. SEE TABLE | | |
| | | 3 PLACES | ± --- | ± --- | CHECKED BY XU XIANG | | DATE 2006/04/06 | | DOCUMENT NO. SD-47417-001 | | |
| 2 PLACES | ± 0.15 | ± --- | APPROVED BY JENNY | | DATE 2006/04/14 | | SHEET NO. 1 OF 1 | | | | |
| 1 PLACE | ± 0.20 | ± --- | ANGULAR ± 2 ° | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | |
| DRAFT WHERE APPLICABLE | | MUST REMAIN WITHIN DIMENSIONS | | | | | | | | | |