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Part Number: **0366330024**
Status: **Active**
Overview: [minifit_jr](#)
Description: 4.20mm (.165") Mini-Fit Jr.™ Header, Right Angle, Nylon, without Mounting Flange, 20 Circuits, Tin (Sn) over Nickel (Ni) Plating, Lead free

Documents:

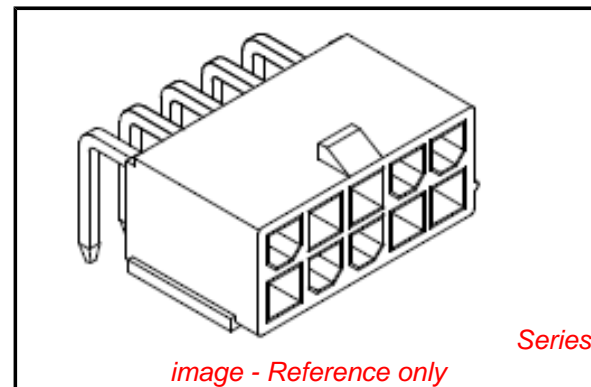
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-87427-0001 \(PDF\)](#)

General

| | |
|----------------|--|
| Product Family | PCB Headers |
| Series | 87427 |
| Application | Wire-to-Board |
| Comments | Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information. |
| Overview | minifit_jr |
| Product Name | Mini-Fit Jr.™ |

Physical

| | |
|--------------------------------|-----------------|
| Breakaway | No |
| Circuits (Loaded) | 20 |
| Color - Resin | Beige |
| Durability (mating cycles max) | 30 |
| First Mate / Last Break | No |
| Glow-Wire Compliant | No |
| Lock to Mating Part | Yes |
| Material - Metal | Brass |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | Nylon |
| Number of Rows | 2 |
| Orientation | Right Angle |
| PC Tail Length (in) | 0.130 In |
| PC Tail Length (mm) | 3.30 mm |
| PCB Locator | No |
| PCB Retention | None |
| PCB Thickness Recommended (in) | 0.062 In |
| PCB Thickness Recommended (mm) | 1.60 mm |
| Packaging Type | Tray |
| Pitch - Mating Interface (in) | 0.165 In |
| Pitch - Mating Interface (mm) | 4.20 mm |
| Pitch - Term. Interface (in) | 0.165 In |
| Pitch - Term. Interface (mm) | 4.20 mm |
| Plating min: Mating (µin) | 100 |
| Plating min: Mating (µm) | 2.54 |
| Plating min: Termination (µin) | 100 |
| Plating min: Termination (µm) | 2.54 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Shrouded | Fully |
| Stackable | 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

[87427Series](#)

Mates With

[5557](#) Mini-Fit Jr.™ Receptacle Housing

Termination Interface: Style

Through Hole

Electrical

Current - Maximum per Contact

13A

Voltage - Maximum

600V

Material Info

Reference - Drawing Numbers

Packaging Specification

PK-87427-001

Product Specification

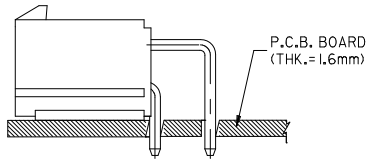
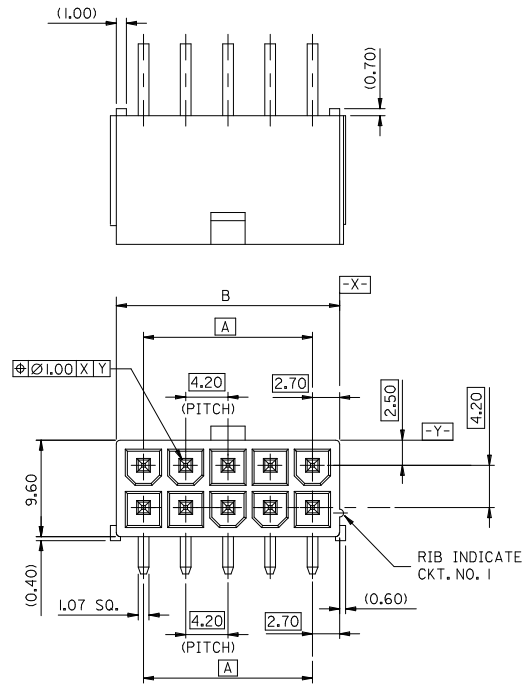
PS-87427-0001

Sales Drawing

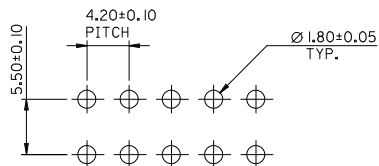
SD-87427-**0*

This document was generated on 05/24/2010

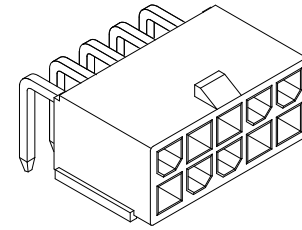
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RECOMMENDED INSTALLATION PATTERN



RECOMMENDED P.C.B. LAYOUT



ISOMETRIC VIEW

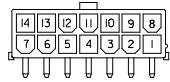
LEGEND

- 87427-****
- CKT. SIZE (SEE SHEET 2).
 - PLATING OPTIONS
 - 2 = NOTE
 - 3 = NOTE
 - PACKAGING OPTIONS
 - 0 = TRAY PACKED
 - 2 = TUBE PACKED

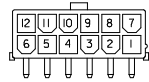
NOTES

1. MATERIAL - HEADER : NYLON 46, UL94V-0, COLOR BEIGE
PIN : BRASS (1.07 SQUARE)
- PLATING OF PIN
TIN 2.54um MIN. OVER NICKEL 1.27um MIN.
- PLATING OF PIN
TIN 4-10um OVER COPPER 2-8um.
- PLATING OF PIN
TIN 2.54um MIN. OVER NICKEL 1.27um MIN. WITH MATT FINISH.
5. PART NUMBERS 36633-0020 TO 36633-0024 & 36633-0040 TO 36633-0046 INCLUDED AS SHOWN IN TABLE 'X'.

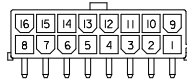
| | | | | | | | | | | | | | |
|---|-------------------------------|---------------------------------------|--------|----------------------------|--|---|---------------------------|------------------------|--|---|--|---------------------|--|
| CORRECT TOLERANCE EC NO: UCP2010-0395 DRAWN: JAGUILAR 2010/04/09 CHKD: EDMUD 1995/03/01 APPR: FSMITH 2010/04/09 | QUALITY SYMBOLS ▽=0 C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE 2:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | | | | | |
| | | mm | INCH | DRAWN BY STEVEN | DATE 1995/02/27 | TITLE 4.2MM W-T-B HIGH TEMP. RIGHT ANGLE HEADER WITHOUT MOUNTING FLANGES | | | | | | | |
| REV | DESCRIPTION | 4 PLACES | ± --- | ± --- | CHECKED BY EDMUD | DATE 1995/03/01 | MATERIAL NO. SEE CHART | | | DOCUMENT NO. SD-87427-**0* | | SHEET NO. 1 OF 2 | |
| | | 3 PLACES | ± --- | ± --- | APPROVED BY FSMITH | DATE 2010/04/09 | | | | | | | |
| | | 2 PLACES | ± 0.20 | ± --- | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |
| | | 1 PLACE | ± 0.20 | ± --- | | | | | | | | | |
| | | ANGULAR ± ---° | | | | | | | | | | | |



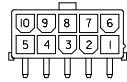
CKT.SIZE 14



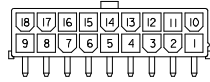
CKT.SIZE 12



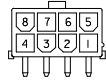
CKT.SIZE 16



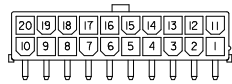
CKT.SIZE 10



CKT.SIZE 18



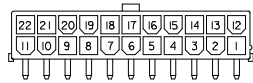
CKT.SIZE 8



CKT.SIZE 20



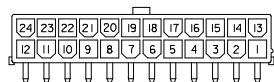
CKT.SIZE 6



CKT.SIZE 22



CKT.SIZE 4



CKT.SIZE 24



CKT.SIZE 2

| | | | | |
|---|-------|-------|------------|-----------|
| SEE NOTES Δ ON SHEET 1 FOR PLATING DETAILS | 51.60 | 46.20 | 36633-0046 | 24 |
| | 47.40 | 42.00 | 36633-0045 | 22 |
| | 43.20 | 37.80 | 36633-0024 | 20 |
| | 39.00 | 33.60 | 36633-0044 | 18 |
| | 34.80 | 29.40 | 36633-0023 | 16 |
| | 30.60 | 25.20 | 36633-0043 | 14 |
| | 26.40 | 21.00 | 36633-0022 | 12 |
| | 22.20 | 16.80 | 36633-0021 | 10 |
| | 18.00 | 12.60 | 36633-0042 | 8 |
| | 13.80 | 8.40 | 36633-0041 | 6 |
| | 9.60 | 4.20 | 36633-0020 | 4 |
| | 5.40 | -- | 36633-0040 | 2 |
| PIN (OUTSIDE & INSIDE) | B | A | ENG. NO. | CKT. SIZE |

TABLE 'X'

| | | | |
|-------|-------|-------------------------|-----------|
| 51.60 | 46.20 | 87427-242* | 24 |
| B | A | ENG. NO. TUBE PACKED | CKT. SIZE |
| 51.60 | 46.20 | 87427-240* | 24 |
| 47.40 | 42.00 | 87427-220* | 22 |
| 43.20 | 37.80 | 87427-200* | 20 |
| 39.00 | 33.60 | 87427-180* | 18 |
| 34.80 | 29.40 | 87427-160* | 16 |
| 30.60 | 25.20 | 87427-140* | 14 |
| 26.40 | 21.00 | 87427-120* | 12 |
| 22.20 | 16.80 | 87427-100* | 10 |
| 18.00 | 12.60 | 87427-080* | 8 |
| 13.80 | 8.40 | 87427-060* | 6 |
| 9.60 | 4.20 | 87427-040* | 4 |
| 5.40 | -- | 87427-020* | 2 |
| B | A | ENG. NO. TRAY PACKED | CKT. SIZE |

| | | | | | | |
|---|--|---|-----------------------------------|--------------------------------------|--|------------------------|
| EC NO: I2009-0573 DRWN: HMR01 2009/11/11 CHKD: KPRASAD 2009/11/12 APPR: KPRASAD 2009/11/13 | QUALITY SYMBOLS $\nabla=0$ $\square=0$ | GENERAL TOLERANCES (UNLESS SPECIFIED) | DIMENSION STYLE MM ONLY | SCALE 1:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| | | 4 PLACES \pm --- \pm --- 3 PLACES \pm --- \pm --- 2 PLACES \pm 0.20 \pm --- 1 PLACE \pm 0.20 \pm --- ANGULAR \pm ---° | DRAWN BY SMC | DATE 1996/02/05 | TITLE 4.2MM W-T-B,HIGH TEMP. RIGHT ANGLE HEADER WITHOUT MOUNTING FLANGES | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | APPROVED BY | DATE | MOLEX INCORPORATED | |
| | | SIZE A3 | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-87427-**0* | SHEET NO. 2 OF 2 | |