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Part Number: **0366330028**
Status: **Active**
Overview: [minifit_jr](#)
Description: 4.20mm (.165") Mini-Fit Jr.™ Header, Vertical, Nylon, without Flange, 22Circuits, 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 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) | 22 |
| 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 | Vertical |
| 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 | Bag |
| 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 |

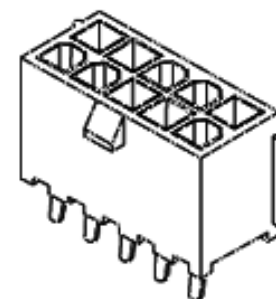


image - Reference only

Series

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-87427-004

Product Specification

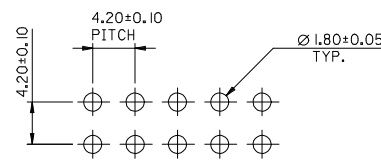
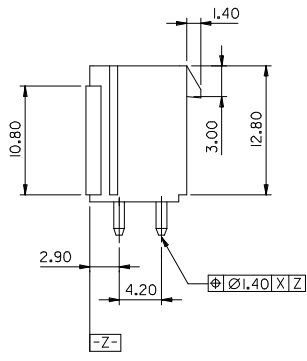
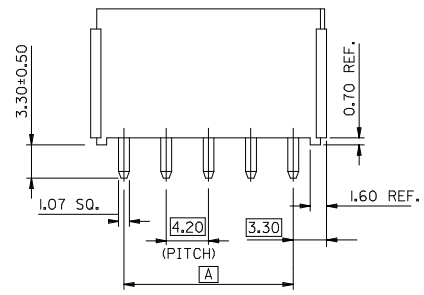
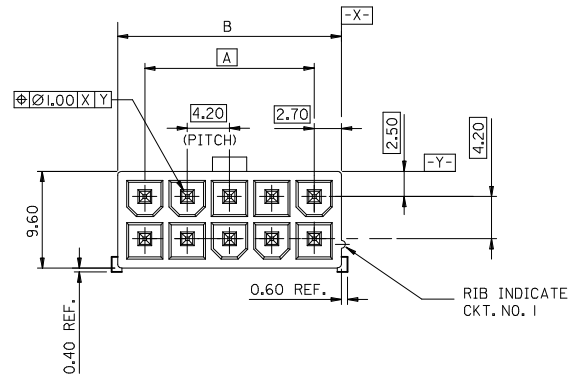
PS-87427-0001

Sales Drawing

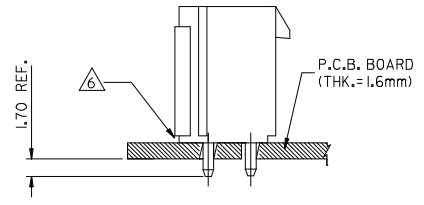
SD-87427-**4*

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RECOMMENDED P.C.B.LAYOUT



RECOMMENDED INSTALLATION PATTERN

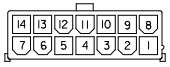
LEGEND

87427-***4*
 CKT. SIZE — PLATING OPTIONS
 2 = NOTE
 3 = NOTE
 8 = NOTE

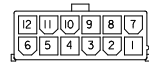
NOTES

- MATERIAL - HOUSING : 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
 GOLD 0.76um MIN. OVER NICKEL 1.27um MIN.
- PLATING OF PIN
 TIN 2.54um MIN. OVER NICKEL 1.27um MIN. WITH MATT FINISH
- HOUSING STANDOFF (0.70 mm REF.)
- PART NUMBERS 36633-0025 TO 36633-0029 & 36633-0033 TO 36633-0039 INCLUDED AS SHOWN IN TABLE 'X'.

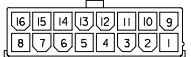
| | | | | | | |
|--|---|--|---|--|---|--|
| ENTER DESCRIPTION EC NO: I2009-0573 DRWN:HR01 2009/11/11 CHKD:KPRASAD 2009/11/12 APPR:KPRASAD 2009/11/13 REV D | QUALITY SYMBOLS = 0 = 0 | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± ---° | DIMENSION STYLE MM ONLY DRAWN BY SAM.C DATE 960401 CHECKED BY DATE APPROVED BY DATE | SCALE 2:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION | TITLE 4.2MM W-T-B HIGH TEMP VERT. HEADER W/O FLANGES | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | MATERIAL NO. SEE SHEET 2 SIZE A3 | DOCUMENT NO. SD-87427-***4* SHEET NO. 1 OF 2 | MOLEX INCORPORATED | | |
| | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |
| | Molex logo | | | | | |



CKT.SIZE 14



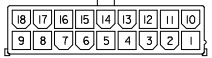
CKT.SIZE 12



CKT.SIZE 16



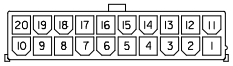
CKT.SIZE 10



CKT.SIZE 18



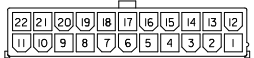
CKT.SIZE 8



CKT.SIZE 20



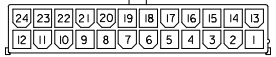
CKT.SIZE 6



CKT.SIZE 22



CKT.SIZE 4



CKT.SIZE 24



CKT.SIZE 2

SEE NOTE $\Delta/5$ ON SHEET 1 FOR PLATING DETAILS

| | | | | |
|------------|-------|------------|----------|-----------|
| 51.60±0.55 | 46.20 | 36633-0029 | 24 | |
| 47.40±0.55 | 42.00 | 36633-0028 | 22 | |
| 43.20±0.50 | 37.80 | 36633-0027 | 20 | |
| 39.00±0.45 | 33.60 | 36633-0039 | 18 | |
| 34.80±0.35 | 29.40 | 36633-0026 | 16 | |
| 30.60±0.30 | 25.20 | 36633-0038 | 14 | |
| 26.40±0.30 | 21.00 | 36633-0037 | 12 | |
| 22.20±0.30 | 16.80 | 36633-0025 | 10 | |
| 18.00±0.30 | 12.60 | 36633-0036 | 8 | |
| 13.80±0.25 | 8.40 | 36633-0035 | 6 | |
| 9.60±0.25 | 4.20 | 36633-0034 | 4 | |
| 5.40±0.20 | -- | 36633-0033 | 2 | |
| PIN | B | A | ENG. NO. | CKT. SIZE |

TABLE 'X'

| | | | |
|------------|-------|------------|-----------|
| 51.60±0.55 | 46.20 | 87427-244* | 24 |
| 47.40±0.55 | 42.00 | 87427-224* | 22 |
| 43.20±0.50 | 37.80 | 87427-204* | 20 |
| 39.00±0.45 | 33.60 | 87427-184* | 18 |
| 34.80±0.35 | 29.40 | 87427-164* | 16 |
| 30.60±0.30 | 25.20 | 87427-144* | 14 |
| 26.40±0.30 | 21.00 | 87427-124* | 12 |
| 22.20±0.30 | 16.80 | 87427-104* | 10 |
| 18.00±0.30 | 12.60 | 87427-084* | 8 |
| 13.80±0.25 | 8.40 | 87427-064* | 6 |
| 9.60±0.25 | 4.20 | 87427-044* | 4 |
| 5.40±0.20 | -- | 87427-024* | 2 |
| B | A | ENG. NO. | CKT. SIZE |

| | | | | | | | | | |
|---|-------------------------------|--|---|-----------------------------------|---------------------------------------|--|------------------------|------------------------|--|
| ENTER DESCRIPTION EC NO: I2009-0573 DRWN: HMR01 2009/11/11 CHKD: KPRASAD 2009/11/12 APPR: KPRASAD 2009/11/13 | QUALITY SYMBOLS ▽=0 ◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM ONLY | | SCALE --- | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION | |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± ---° | mm INCH ± --- ± --- ± 0.20 ± --- ± --- ± --- | DRAWN BY SAM.C | DATE 960415 | TITLE 4.2MM W-T-B HIGH TEMP VERT. HEADER W/O FLANGES | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | APPROVED BY | DATE | MOLEX INCORPORATED | | | |
| | | | | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-87427-***4* | SHEET NO. 2 OF 2 | | | |

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