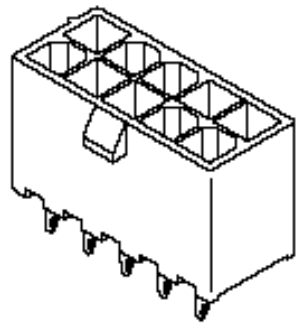
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0039299106
**Status:** Active
**Overview:** minifit_jr
**Description:** 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 10 Circuits, PA Polyamide Nylon 6/6 94V-0, Tin (Sn) Plating, with Drain Holes



*Series image - Reference only*

**Documents:**

- 3D Model
- Drawing (PDF)
- Product Specification PS-5556-001 (PDF)
- RoHS Certificate of Compliance (PDF)

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| TUV | R72081037 |
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | PCB Headers |
| Series | 5566 |
| 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 Crimpted to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. High Temperature, Square Pin, Solder Type |
| Overview | minifit_jr |
| Product Name | Mini-Fit Jr.™ |

## Physical

| | |
|---|---|
| Breakaway | No |
| Circuits (Loaded) | 10 |
| Circuits (maximum) | 10 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 30 |
| First Mate / Last Break | No |
| Flammability | 94V-0 |
| Glow-Wire Compliant | No |
| Guide to Mating Part | No |
| Keying to Mating Part | None |
| 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) | 0.138 In |
| PC Tail Length (mm) | 3.50 mm |
| PCB Locator | Yes |
| PCB Retention | Yes |
| 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 |

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

**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**
5566Series

**Mates With**
5557 Mini-Fit Jr.™ Receptacle Housing

| | |
|---|---|
| Pitch - Term. Interface (in) | 0.165 In |
| Pitch - Term. Interface (mm) | 4.20 mm |
| Plating min: Mating (µin) | 35 |
| Plating min: Mating (µm) | 0.90 |
| Plating min: Termination (µin) | 100 |
| Plating min: Termination (µm) | 2.50 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | Yes |
| Shrouded | Fully |
| Stackable | No |
| Surface Mount Compatible (SMC) | No |
| Temperature Range - Operating | -40°C to +105°C |
| Termination Interface: Style | Through Hole |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 13A |
| Voltage - Maximum | 600V |

## Solder Process Data

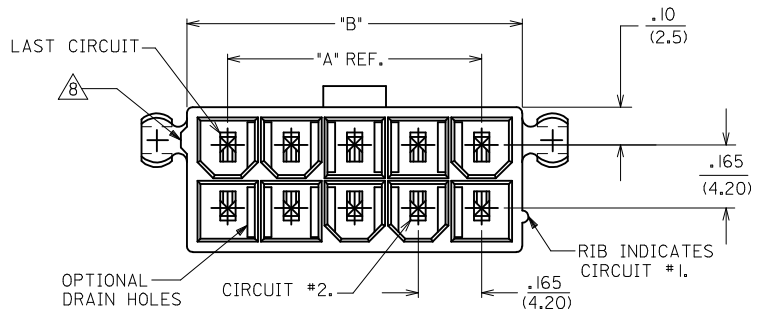
| | |
|---|---|
| Duration at Max. Process Temperature (seconds) | 5 |
| Lead-free Process Capability | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature | 1 |
| Process Temperature max. C | 240 |

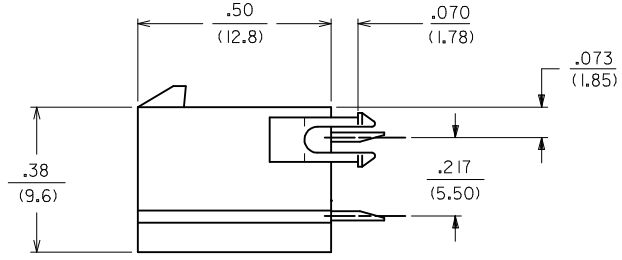
## Material Info

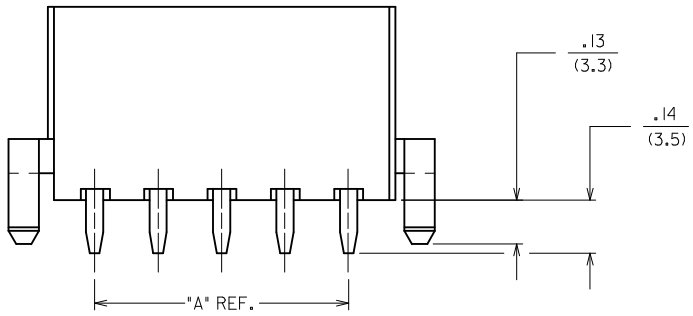
| | |
|---|---|
| Old Part Number | 5566-10B2-210 |

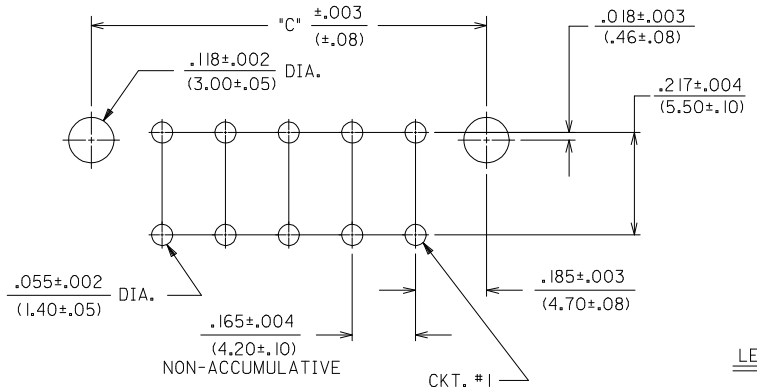
## Reference - Drawing Numbers

| | |
|---|---|
| Packaging Specification | PK-5566-001 |
| Product Specification | PS-5556-001 |
| Sales Drawing | SDA-5566-N*2*-* |
| Test Summary | TS-5556-002 |




RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P. C. BOARD

VIEWED FROM COMPONENT SIDE

| CIRCUIT SIZE | DIM. "A" | DIM. "B" | DIM. "C" |
|---|---|---|---|
| 2 | — | .21 (5.4) | .370 (9.40) |
| 4 | .17 (4.2) | .38 (9.6) | .535 (13.60) |
| 6 | .33 (8.4) | .54 (13.8) | .701 (17.80) |
| 8 | .50 (12.6) | .71 (18.0) | .866 (22.00) |
| 10 | .66 (16.8) | .87 (22.2) | 1.031 (26.20) |
| 12 | .83 (21.0) | 1.04 (26.4) | 1.197 (30.40) |
| 14 | .99 (25.2) | 1.20 (30.6) | 1.362 (34.60) |
| 16 | 1.16 (29.4) | 1.37 (34.8) | 1.528 (38.80) |
| 18 | 1.32 (33.6) | 1.54 (39.0) | 1.693 (43.00) |
| 20 | 1.49 (37.8) | 1.70 (43.2) | 1.858 (47.20) |
| 22 | 1.65 (42.0) | 1.87 (47.4) | 2.024 (51.40) |
| 24 | 1.82 (46.2) | 2.03 (51.6) | 2.189 (55.60) |

NOTES:

1) HOUSING MATERIAL:
   "BLANK" - NYLON 6/6, U.L. 94V-2, COLOR: NATURAL.
   210 - NYLON 6/6, U.L. 94V-0, COLOR: NATURAL.
   BL - NYLON 6/6, U.L. 94V-2, COLOR: DYED BLACK.
2) TERMINAL MATERIAL: BRASS ALLOY 260
3) PART MATES WITH MINI-FIT JR. RECEPTACLE #5557.
4) PACKAGING: SEE CHARTS
5) MOUNTING OPTIONS:
   "BLANK" - NO MOUNTING (SEE SD-5566-NA AND -NB SERIES DWGS.)
   2 - PEG MOUNT
6) TERMINAL PLATING:
   "BLANK" - .000035/(.00090) MIN. TIN OVER .000020/(.00050) MIN. COPPER.
   *GS - .000030/(.00076) MIN. SELECT GOLD .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
   *GS2 - .000015/(.00038) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
   S - .000100/(.00254) MIN. TIN OVER .000050/(.00127) MIN. NICKEL.

*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC." " CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.

7) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: SEE PS-5556-001
8) ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.
9) CONNECTORS ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
10) PARTS ARE NOT DESIGNED FOR CURRENT SHARING.

LEGEND:

5566 - N * * * - * *
- BASE NUMBER
- CIRCUIT SIZE
- ASSEMBLY TYPE: A - W/O DRAIN HOLES; B - WITH DRAIN HOLES
- MOUNTING OPTION (SEE NOTE 5.)
- PLATING (SEE NOTE 6.)
- HOUSING MAT'L. (SEE NOTE 1.)
- PACKAGING: BLANK = TRAY; 1 = TUBE

| | |
|---|---|
| 4 | R2 |
| 3 | R2 |
| 2 | R2 |
| 1 | R2 |
| SHT. | REV. |

REVISED NOTES 8
EC NO: UCP2009-1336
DRWN: JKLOSTEMEIER 2008/11/24
CHKD: JBELL 2008/11/24
APPR: FSMITH 2008/11/24
DESCRIPTION
R2
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .015 |
| 2 PLACES | ± 0.38 | ± .015 |
| 1 PLACE | ± 0.38 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DRAWN BY | RJF | DATE 8/19/87 |
| CHECKED BY | GT | DATE 8/19/87 |
| APPROVED BY | RAS | DATE 8/19/87 |

TITLE: MINI-FIT JR. VERTICAL HEADER ASSEMBLIES WITH MOUNTING PEGS

molex MOLEX INCORPORATED

MATERIAL NO.: SEE SHTS 2-4
DOCUMENT NO.: SDA-5566-N*2*-*
SHEET NO.: 1 OF 4
SIZE: C

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

| PLATING: | 35 M.I. TIN |
|---|---|
| DRAIN HOLES: | WITHOUT DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-2 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9023 | 5566 -02A2 | 2 |
| 39-29-9043 | 5566 -04A2 | 4 |
| 39-29-9063 | 5566 -06A2 | 6 |
| 39-29-9083 | 5566 -08A2 | 8 |
| 39-29-9103 | 5566 -10A2 | 10 |
| 39-29-9123 | 5566 -12A2 | 12 |
| 39-29-9143 | 5566 -14A2 | 14 |
| 39-29-9163 | 5566 -16A2 | 16 |
| 39-29-9183 | 5566 -18A2 | 18 |
| 39-29-9203 | 5566 -20A2 | 20 |
| 39-29-9223 | 5566 -22A2 | 22 |
| 39-29-9243 | 5566 -24A2 | 24 |
| | - | |
| | - | |

| PLATING: | 35 M.I. TIN |
|---|---|
| DRAIN HOLES: | WITHOUT DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-0 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9027 | 5566 -02A2-210 | 2 |
| 39-29-9047 | 5566 -04A2-210 | 4 |
| 39-29-9067 | 5566 -06A2-210 | 6 |
| 39-29-9087 | 5566 -08A2-210 | 8 |
| 39-29-9107 | 5566 -10A2-210 | 10 |
| 39-29-9127 | 5566 -12A2-210 | 12 |
| 39-29-9147 | 5566 -14A2-210 | 14 |
| 39-29-9167 | 5566 -16A2-210 | 16 |
| 39-29-9187 | 5566 -18A2-210 | 18 |
| 39-29-9207 | 5566 -20A2-210 | 20 |
| 39-29-9227 | 5566 -22A2-210 | 22 |
| 39-29-9247 | 5566 -24A2-210 | 24 |
| | - | |
| | - | |

| PLATING: | 30 M.I. GOLD |
|---|---|
| DRAIN HOLES: | WITHOUT DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-2 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9025 | 5566 -02A2GS | 2 |
| 39-29-9045 | 5566 -04A2GS | 4 |
| 39-29-9065 | 5566 -06A2GS | 6 |
| 39-29-9085 | 5566 -08A2GS | 8 |
| 39-29-9105 | 5566 -10A2GS | 10 |
| 39-29-9125 | 5566 -12A2GS | 12 |
| 39-29-9145 | 5566 -14A2GS | 14 |
| 39-29-9165 | 5566 -16A2GS | 16 |
| 39-29-9185 | 5566 -18A2GS | 18 |
| 39-29-9205 | 5566 -20A2GS | 20 |
| 39-29-9225 | 5566 -22A2GS | 22 |
| 39-29-9245 | 5566 -24A2GS | 24 |
| | - | |
| | - | |

| PLATING: | 30 M.I. GOLD |
|---|---|
| DRAIN HOLES: | WITHOUT DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-0 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9029 | 5566 -02A2GS-210 | 2 |
| 39-29-9049 | 5566 -04A2GS-210 | 4 |
| 39-29-9069 | 5566 -06A2GS-210 | 6 |
| 39-29-9089 | 5566 -08A2GS-210 | 8 |
| 39-29-9109 | 5566 -10A2GS-210 | 10 |
| 39-29-9129 | 5566 -12A2GS-210 | 12 |
| 39-29-9149 | 5566 -14A2GS-210 | 14 |
| 39-29-9169 | 5566 -16A2GS-210 | 16 |
| 39-29-9189 | 5566 -18A2GS-210 | 18 |
| 39-29-9209 | 5566 -20A2GS-210 | 20 |
| 39-29-9229 | 5566 -22A2GS-210 | 22 |
| 39-29-9249 | 5566 -24A2GS-210 | 24 |
| | - | |
| | - | |

| PLATING: | 35 M.I. TIN |
|---|---|
| DRAIN HOLES: | WITH DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-2 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9022 | 5566 -02B2 | 2 |
| 39-29-9042 | 5566 -04B2 | 4 |
| 39-29-9062 | 5566 -06B2 | 6 |
| 39-29-9082 | 5566 -08B2 | 8 |
| 39-29-9102 | 5566 -10B2 | 10 |
| 39-29-9122 | 5566 -12B2 | 12 |
| 39-29-9142 | 5566 -14B2 | 14 |
| 39-29-9162 | 5566 -16B2 | 16 |
| 39-29-9182 | 5566 -18B2 | 18 |
| 39-29-9202 | 5566 -20B2 | 20 |
| 39-29-9222 | 5566 -22B2 | 22 |
| 39-29-9242 | 5566 -24B2 | 24 |
| | - | |
| | - | |

| PLATING: | 35 M.I. TIN |
|---|---|
| DRAIN HOLES: | WITH DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-0 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9026 | 5566 -02B2-210 | 2 |
| 39-29-9046 | 5566 -04B2-210 | 4 |
| 39-29-9066 | 5566 -06B2-210 | 6 |
| 39-29-9086 | 5566 -08B2-210 | 8 |
| 39-29-9106 | 5566 -10B2-210 | 10 |
| 39-29-9126 | 5566 -12B2-210 | 12 |
| 39-29-9146 | 5566 -14B2-210 | 14 |
| 39-29-9166 | 5566 -16B2-210 | 16 |
| 39-29-9186 | 5566 -18B2-210 | 18 |
| 39-29-9206 | 5566 -20B2-210 | 20 |
| 39-29-9226 | 5566 -22B2-210 | 22 |
| 39-29-9246 | 5566 -24B2-210 | 24 |
| | - | |
| | - | |

| PLATING: | 30 M.I. GOLD |
|---|---|
| DRAIN HOLES: | WITH DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-2 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-29-9024 | 5566 -02B2GS | 2 |
| 39-29-9044 | 5566 -04B2GS | 4 |
| 39-29-9064 | 5566 -06B2GS | 6 |
| 39-29-9084 | 5566 -08B2GS | 8 |
| 39-29-9104 | 5566 -10B2GS | 10 |
| 39-29-9124 | 5566 -12B2GS | 12 |
| 39-29-9144 | 5566 -14B2GS | 14 |
| 39-29-9164 | 5566 -16B2GS | 16 |
| 39-29-9184 | 5566 -18B2GS | 18 |
| 39-29-9204 | 5566 -20B2GS | 20 |
| 39-29-9224 | 5566 -22B2GS | 22 |
| 39-29-9244 | 5566 -24B2GS | 24 |
| | - | |
| | - | |

| PLATING: | 30 M.I. GOLD |
|---|---|
| DRAIN HOLES: | WITH DRAIN HOLES |
| MTG. OPTION: | WITH PEGS |
| HOUSING MAT'L: | NYLON 6/6 94V-0 NATURAL |
| PACKAGING: | TRAY |

| PART NO. | ENG NO. | CKTS |
|---|---|---|
| 39-28-9028 | 5566 -02B2GS-210 | 2 |
| 39-28-9048 | 5566 -04B2GS-210 | 4 |
| 39-28-9068 | 5566 -06B2GS-210 | 6 |
| 39-28-9088 | 5566 -08B2GS-210 | 8 |
| 39-28-9108 | 5566 -10B2GS-210 | 10 |
| 39-28-9128 | 5566 -12B2GS-210 | 12 |
| 39-28-9148 | 5566 -14B2GS-210 | 14 |
| 39-28-9168 | 5566 -16B2GS-210 | 16 |
| 39-28-9188 | 5566 -18B2GS-210 | 18 |
| 39-28-9208 | 5566 -20B2GS-210 | 20 |
| 39-28-9228 | 5566 -22B2GS-210 | 22 |
| 39-28-9248 | 5566 -24B2GS-210 | 24 |
| | - | |
| | - | |

SEE SHEET 1
EC NO: UCP2009-1336
DRWN: JKLOSTEMEIER 2008/11/24
CHKD: JBELL 2008/11/24
APPR: FSMITH 2008/11/24
DESCRIPTION
R2
REV

QUALITY SYMBOLS
▼=0
▽C=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .015 |
| 2 PLACES | ± .38 | ± .015 |
| 1 PLACE | ± .38 | ± --- |
| ANGULAR ±1/2° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

| | | |
|---|---|---|
| DRAWN BY | RJF | DATE 8/19/87 |
| CHECKED BY | GT | DATE 8/19/87 |
| APPROVED BY | RAS | DATE 8/19/87 |

TITLE: MINI-FIT JR. VERT HEADER ASSEMBLIES WITH MOUNTING PEGS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-5566-N*2*-*
SHEET NO.: 2
SIZE: C

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