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**Part Number:** [0039289148](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 14 Circuits, PA Polyamide Nylon 6/6 94V-0, 0.76µm (30µ") Gold (Au) Selective Plating, with Drain Holes

**Documents:**  
[3D Model](#) [Product Specification PS-5556-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

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

**General**

|                |                                                                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Family | PCB Headers                                                                                                                                                                                                                                                                                                |
| Series         | <a href="#">5566</a>                                                                                                                                                                                                                                                                                       |
| Application    | Wire-to-Board                                                                                                                                                                                                                                                                                              |
| Comments       | Current = 13A max. per circuit when header is mated to a receptacle loaded with <a href="#">45750</a> 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.. High Temperature, Square Pin, Solder Type |
| Overview       | <a href="#">minifit_jr</a>                                                                                                                                                                                                                                                                                 |
| Product Name   | Mini-Fit Jr.™                                                                                                                                                                                                                                                                                              |

**Physical**

|                                |          |
|--------------------------------|----------|
| Breakaway                      | No       |
| Circuits (Loaded)              | 14       |
| Circuits (maximum)             | 14       |
| 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      | Gold     |
| 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  |

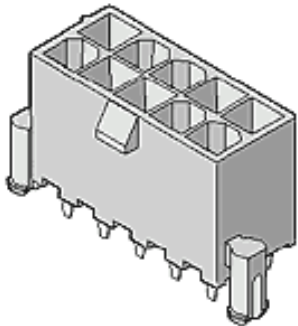


image - Reference only

Series

**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](mailto: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)      | 30              |
| Plating min: Mating (µm)       | 0.76            |
| 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 | A-5566-14B2GS-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     |

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|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|---|----------------|------------|-------------------------|----|----------------|----------------|-------------------------|---|----------------|--------------|-------------------------|---|----------------|------------------|-------------------------|--|
|   | 13             | 12         | 11                      | 10 | 9              | 8              | 7                       | 6 | 5              | 4            | 3                       | 2 | 1              |                  |                         |  |
| J | PLATING:       |            | 35 M.I. TIN             |    | PLATING:       |                | 35 M.I. TIN             |   | PLATING:       |              | 30 M.I. GOLD            |   | PLATING:       |                  | 30 M.I. GOLD            |  |
|   | DRAIN HOLES:   |            | WITHOUT DRAIN HOLES     |    | DRAIN HOLES:   |                | WITHOUT DRAIN HOLES     |   | DRAIN HOLES:   |              | WITHOUT DRAIN HOLES     |   | DRAIN HOLES:   |                  | WITHOUT DRAIN HOLES     |  |
|   | MTG. OPTION:   |            | WITH PEGS               |    | MTG. OPTION:   |                | WITH PEGS               |   | MTG. OPTION:   |              | WITH PEGS               |   | MTG. OPTION:   |                  | WITH PEGS               |  |
|   | HOUSING MAT'L: |            | NYLON 6/6 94V-2 NATURAL |    | HOUSING MAT'L: |                | NYLON 6/6 94V-0 NATURAL |   | HOUSING MAT'L: |              | NYLON 6/6 94V-2 NATURAL |   | HOUSING MAT'L: |                  | NYLON 6/6 94V-0 NATURAL |  |
|   | PACKAGING:     |            | TRAY                    |    | PACKAGING:     |                | TRAY                    |   | PACKAGING:     |              | TRAY                    |   | PACKAGING:     |                  | TRAY                    |  |
| I | PART NO.       | ENG NO.    | CKTS                    |    | PART NO.       | ENG NO.        | CKTS                    |   | PART NO.       | ENG NO.      | CKTS                    |   | PART NO.       | ENG NO.          | CKTS                    |  |
|   | 39-29-9023     | 5566 -02A2 | 2                       |    | 39-29-9027     | 5566 -02A2-210 | 2                       |   | 39-29-9025     | 5566 -02A2GS | 2                       |   | 39-29-9029     | 5566 -02A2GS-210 | 2                       |  |
|   | 39-29-9043     | 5566 -04A2 | 4                       |    | 39-29-9047     | 5566 -04A2-210 | 4                       |   | 39-29-9045     | 5566 -04A2GS | 4                       |   | 39-29-9049     | 5566 -04A2GS-210 | 4                       |  |
|   | 39-29-9063     | 5566 -06A2 | 6                       |    | 39-29-9067     | 5566 -06A2-210 | 6                       |   | 39-29-9065     | 5566 -06A2GS | 6                       |   | 39-29-9069     | 5566 -06A2GS-210 | 6                       |  |
|   | 39-29-9083     | 5566 -08A2 | 8                       |    | 39-29-9087     | 5566 -08A2-210 | 8                       |   | 39-29-9085     | 5566 -08A2GS | 8                       |   | 39-29-9089     | 5566 -08A2GS-210 | 8                       |  |
| H | 39-29-9103     | 5566 -10A2 | 10                      |    | 39-29-9107     | 5566 -10A2-210 | 10                      |   | 39-29-9105     | 5566 -10A2GS | 10                      |   | 39-29-9109     | 5566 -10A2GS-210 | 10                      |  |
|   | 39-29-9123     | 5566 -12A2 | 12                      |    | 39-29-9127     | 5566 -12A2-210 | 12                      |   | 39-29-9125     | 5566 -12A2GS | 12                      |   | 39-29-9129     | 5566 -12A2GS-210 | 12                      |  |
|   | 39-29-9143     | 5566 -14A2 | 14                      |    | 39-29-9147     | 5566 -14A2-210 | 14                      |   | 39-29-9145     | 5566 -14A2GS | 14                      |   | 39-29-9149     | 5566 -14A2GS-210 | 14                      |  |
|   | 39-29-9163     | 5566 -16A2 | 16                      |    | 39-29-9167     | 5566 -16A2-210 | 16                      |   | 39-29-9165     | 5566 -16A2GS | 16                      |   | 39-29-9169     | 5566 -16A2GS-210 | 16                      |  |
|   | 39-29-9183     | 5566 -18A2 | 18                      |    | 39-29-9187     | 5566 -18A2-210 | 18                      |   | 39-29-9185     | 5566 -18A2GS | 18                      |   | 39-29-9189     | 5566 -18A2GS-210 | 18                      |  |
|   | 39-29-9203     | 5566 -20A2 | 20                      |    | 39-29-9207     | 5566 -20A2-210 | 20                      |   | 39-29-9205     | 5566 -20A2GS | 20                      |   | 39-29-9209     | 5566 -20A2GS-210 | 20                      |  |
|   | 39-29-9223     | 5566 -22A2 | 22                      |    | 39-29-9227     | 5566 -22A2-210 | 22                      |   | 39-29-9225     | 5566 -22A2GS | 22                      |   | 39-29-9229     | 5566 -22A2GS-210 | 22                      |  |
|   | 39-29-9243     | 5566 -24A2 | 24                      |    | 39-29-9247     | 5566 -24A2-210 | 24                      |   | 39-29-9245     | 5566 -24A2GS | 24                      |   | 39-29-9249     | 5566 -24A2GS-210 | 24                      |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
| G | PLATING:       |            | 35 M.I. TIN             |    | PLATING:       |                | 35 M.I. TIN             |   | PLATING:       |              | 30 M.I. GOLD            |   | PLATING:       |                  | 30 M.I. GOLD            |  |
|   | DRAIN HOLES:   |            | WITH DRAIN HOLES        |    | DRAIN HOLES:   |                | WITH DRAIN HOLES        |   | DRAIN HOLES:   |              | WITH DRAIN HOLES        |   | DRAIN HOLES:   |                  | WITH DRAIN HOLES        |  |
|   | MTG. OPTION:   |            | WITH PEGS               |    | MTG. OPTION:   |                | WITH PEGS               |   | MTG. OPTION:   |              | WITH PEGS               |   | MTG. OPTION:   |                  | WITH PEGS               |  |
|   | HOUSING MAT'L: |            | NYLON 6/6 94V-2 NATURAL |    | HOUSING MAT'L: |                | NYLON 6/6 94V-0 NATURAL |   | HOUSING MAT'L: |              | NYLON 6/6 94V-2 NATURAL |   | HOUSING MAT'L: |                  | NYLON 6/6 94V-0 NATURAL |  |
|   | PACKAGING:     |            | TRAY                    |    | PACKAGING:     |                | TRAY                    |   | PACKAGING:     |              | TRAY                    |   | PACKAGING:     |                  | TRAY                    |  |
| F | PART NO.       | ENG NO.    | CKTS                    |    | PART NO.       | ENG NO.        | CKTS                    |   | PART NO.       | ENG NO.      | CKTS                    |   | PART NO.       | ENG NO.          | CKTS                    |  |
|   | 39-29-9022     | 5566 -02B2 | 2                       |    | 39-29-9026     | 5566 -02B2-210 | 2                       |   | 39-29-9024     | 5566 -02B2GS | 2                       |   | 39-28-9028     | 5566 -02B2GS-210 | 2                       |  |
|   | 39-29-9042     | 5566 -04B2 | 4                       |    | 39-29-9046     | 5566 -04B2-210 | 4                       |   | 39-29-9044     | 5566 -04B2GS | 4                       |   | 39-28-9048     | 5566 -04B2GS-210 | 4                       |  |
|   | 39-29-9062     | 5566 -06B2 | 6                       |    | 39-29-9066     | 5566 -06B2-210 | 6                       |   | 39-29-9064     | 5566 -06B2GS | 6                       |   | 39-28-9068     | 5566 -06B2GS-210 | 6                       |  |
|   | 39-29-9082     | 5566 -08B2 | 8                       |    | 39-29-9086     | 5566 -08B2-210 | 8                       |   | 39-29-9084     | 5566 -08B2GS | 8                       |   | 39-28-9088     | 5566 -08B2GS-210 | 8                       |  |
| E | 39-29-9102     | 5566 -10B2 | 10                      |    | 39-29-9106     | 5566 -10B2-210 | 10                      |   | 39-29-9104     | 5566 -10B2GS | 10                      |   | 39-28-9108     | 5566 -10B2GS-210 | 10                      |  |
|   | 39-29-9122     | 5566 -12B2 | 12                      |    | 39-29-9126     | 5566 -12B2-210 | 12                      |   | 39-29-9124     | 5566 -12B2GS | 12                      |   | 39-28-9128     | 5566 -12B2GS-210 | 12                      |  |
|   | 39-29-9142     | 5566 -14B2 | 14                      |    | 39-29-9146     | 5566 -14B2-210 | 14                      |   | 39-29-9144     | 5566 -14B2GS | 14                      |   | 39-28-9148     | 5566 -14B2GS-210 | 14                      |  |
|   | 39-29-9162     | 5566 -16B2 | 16                      |    | 39-29-9166     | 5566 -16B2-210 | 16                      |   | 39-29-9164     | 5566 -16B2GS | 16                      |   | 39-28-9168     | 5566 -16B2GS-210 | 16                      |  |
|   | 39-29-9182     | 5566 -18B2 | 18                      |    | 39-29-9186     | 5566 -18B2-210 | 18                      |   | 39-29-9184     | 5566 -18B2GS | 18                      |   | 39-28-9188     | 5566 -18B2GS-210 | 18                      |  |
| D | 39-29-9202     | 5566 -20B2 | 20                      |    | 39-29-9206     | 5566 -20B2-210 | 20                      |   | 39-29-9204     | 5566 -20B2GS | 20                      |   | 39-28-9208     | 5566 -20B2GS-210 | 20                      |  |
|   | 39-29-9222     | 5566 -22B2 | 22                      |    | 39-29-9226     | 5566 -22B2-210 | 22                      |   | 39-29-9224     | 5566 -22B2GS | 22                      |   | 39-28-9228     | 5566 -22B2GS-210 | 22                      |  |
|   | 39-29-9242     | 5566 -24B2 | 24                      |    | 39-29-9246     | 5566 -24B2-210 | 24                      |   | 39-29-9244     | 5566 -24B2GS | 24                      |   | 39-28-9248     | 5566 -24B2GS-210 | 24                      |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
|   |                | -          |                         |    |                | -              |                         |   |                | -            |                         |   |                | -                |                         |  |
| C |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
| B |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
| A |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |
|   |                |            |                         |    |                |                |                         |   |                |              |                         |   |                |                  |                         |  |

|                                                                                                                      |       |                |                               |                                                      |                |                          |                           |                                                                                                                               |                        |                        |                                                                                       |                                 |                |                 |
|----------------------------------------------------------------------------------------------------------------------|-------|----------------|-------------------------------|------------------------------------------------------|----------------|--------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------------------------------------------------------------------------------|---------------------------------|----------------|-----------------|
| SEE SHEET 1<br>EC NO: UCP2009-1336<br>DRWN:KLOSTEMEIER 2008/11/24<br>CHKD:JBELL 2008/11/24<br>APPR:FSMITH 2008/11/24 | REV   | DESCRIPTION    | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                |                | DIMENSION STYLE<br>IN/MM |                           | SCALE<br>1:1                                                                                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION | TITLE<br>MINI-FIT JR. VERT HEADER ASSEMBLIES WITH MOUNTING PEGS<br>MOLEX INCORPORATED | DOCUMENT NO.<br>SDA-5566-N*2*-* | SHEET NO.<br>2 |                 |
|                                                                                                                      |       |                |                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | mm             | INCH                     | DRAWN BY<br>RJF           | DATE<br>8/19/87                                                                                                               | APPROVED BY<br>RAS     |                        |                                                                                       |                                 |                | DATE<br>8/19/87 |
|                                                                                                                      |       |                |                               |                                                      | 4 PLACES ± --- | ± ---                    | CHECKED BY<br>GT          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                        |                                                                                       |                                 |                |                 |
|                                                                                                                      |       |                |                               |                                                      | 3 PLACES ± --- | ± .015                   | MATERIAL NO.<br>SEE CHART |                                                                                                                               |                        |                        |                                                                                       |                                 |                |                 |
|                                                                                                                      |       |                |                               |                                                      | 2 PLACES ± .38 | ± .015                   |                           |                                                                                                                               |                        |                        |                                                                                       |                                 |                |                 |
| 1 PLACE ± .38                                                                                                        | ± --- | ANGULAR ± 1/2° | SIZE<br>C                     |                                                      |                |                          |                           |                                                                                                                               |                        |                        |                                                                                       |                                 |                |                 |

|                                        |    |    |    |   |   |   |   |   |   |   |   |   |
|----------------------------------------|----|----|----|---|---|---|---|---|---|---|---|---|
| tb_frame_C_P_ME_T<br>Rev. D 2004/04/02 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|----------------------------------------|----|----|----|---|---|---|---|---|---|---|---|---|