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**Part Number:** [0039012021](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Pitch Mini-Fit Jr.™ Plug Housing, Dual Row, with and without Panel Mount Ears, UL 94V-2, Panel Mount, 2 Circuits

**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 Crimp Housings  
Series [5559](#)  
Comments Current = 13A max. per circuit when header is mated to a receptacle loaded with [45750](#) series terminals crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Glow Wire Equivalent Part Number [50361734](#). Not for use with Strain Relief  
  
MolexKits Yes  
Overview [minifit\\_jr](#)  
Product Name Mini-Fit Jr.™

**Physical**

Breakaway No  
Circuits (maximum) 2  
Color - Resin Natural  
Flammability 94V-2  
Gender Male  
Glow-Wire Compliant No  
Material - Resin Nylon  
Number of Rows 2  
Packaging Type Bag  
Panel Mount Yes  
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  
Polarized to Mating Part Yes  
Stackable No  
Temperature Range - Operating -40°C to +105°C

**Electrical**

Current - Maximum per Contact 13A

**Material Info**

Old Part Number 5559-02P

**Reference - Drawing Numbers**

[Packaging Specification](#) SPK-5559-001  
[Product Specification](#) PS-5556-001  
[Sales Drawing](#) SD-5559-NP

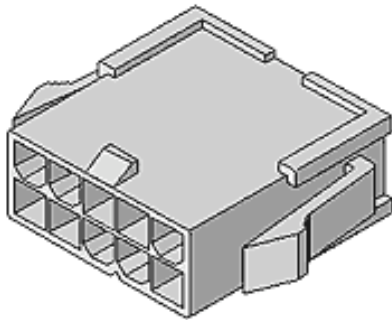


image - Reference only

Series

**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](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.

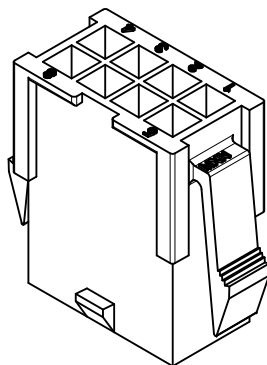
**Search Parts in this Series**  
[5559Series](#)

**Mates With**  
[5557d](#) Receptacle Housing

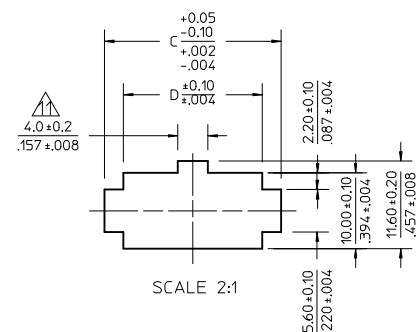
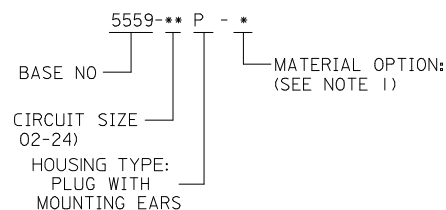
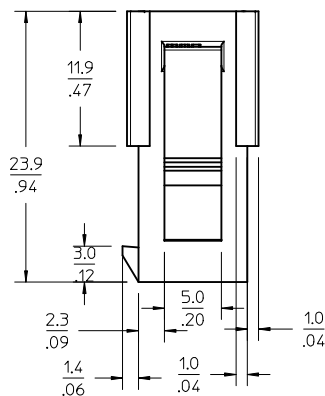
**Use With**  
[5558](#) , [44478](#) , [30490](#) , [41995](#)

This document was generated on 06/08/2010

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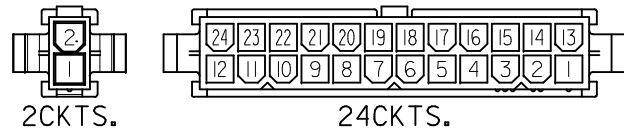
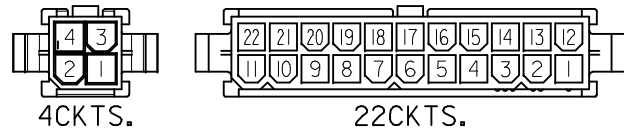
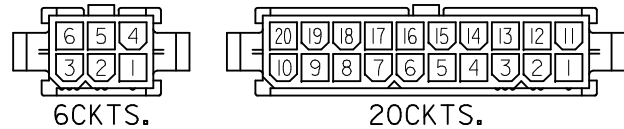
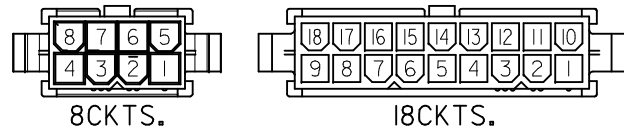
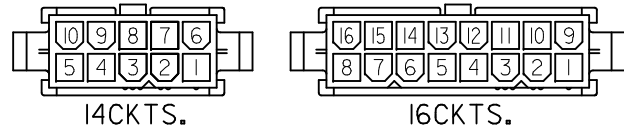
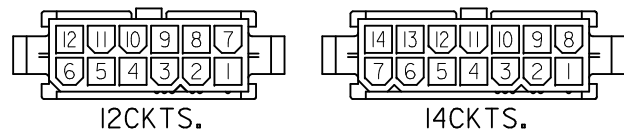
12) PANEL HOLE TO BE DRILLED OUT IN THE SAME DIRECTION AS INSERTION INTO THE PANEL.



RECOMMENDED PANEL HOLE DIMENSIONS  
(THICKNESS : 0.8-2.0/0.32-.079)

|            |            |            |            |         |
|------------|------------|------------|------------|---------|
| 52.1/2.051 | 57.0/2.244 | 51.6/2.031 | 46.2/1.819 | 24      |
| 47.9/1.886 | 52.8/2.019 | 47.4/1.866 | 42.0/1.654 | 22      |
| 43.7/1.720 | 48.6/1.913 | 43.2/1.701 | 37.8/1.488 | 20      |
| 39.5/1.555 | 44.4/1.748 | 39.0/1.535 | 33.6/1.323 | 18      |
| 35.3/1.390 | 40.2/1.583 | 34.8/1.370 | 29.4/1.158 | 16      |
| 31.1/1.224 | 36.0/1.417 | 30.6/1.205 | 25.2/1.092 | 14      |
| 26.8/1.055 | 31.8/1.252 | 26.4/1.039 | 21.0/1.027 | 12      |
| 22.6/0.890 | 27.6/1.087 | 22.2/0.874 | 16.8/0.66  | 10      |
| 18.4/1.724 | 23.4/1.921 | 18.0/1.709 | 12.6/1.496 | 8       |
| 14.2/1.559 | 19.2/1.756 | 13.8/1.543 | 8.4/1.331  | 6       |
| 10.0/1.394 | 15.0/1.591 | 9.6/1.378  | 4.2/1.165  | 4       |
| 5.8/1.228  | 10.8/1.425 | 5.4/1.213  | —          | 2       |
| D          | C          | B          | A          | CIRCUIT |

|                   |                     |  |            |             |                 |                                       |                                                                                                                               |                        |  |                                           |  |              |  |                        |  |
|-------------------|---------------------|--|------------|-------------|-----------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|--|-------------------------------------------|--|--------------|--|------------------------|--|
| ADDED MODEL VIEWS | EC NO: UCP2010-0850 |  | 2009/11/09 | DESCRIPTION | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                               | DIMENSION STYLE        |  | SCALE                                     |  | DESIGN UNITS |  | THIRD ANGLE PROJECTION |  |
|                   | DRWN: JIAGUILAR     |  | 2009/11/10 |             |                 |                                       |                                                                                                                               | MM/IN                  |  | 3:1                                       |  | METRIC       |  |                        |  |
|                   | CHKD: J.BELL        |  | 2009/11/10 |             |                 |                                       |                                                                                                                               | DRAWN BY DATE          |  | TITLE                                     |  |              |  |                        |  |
|                   | APPR: F.S.MITH      |  | 2009/11/10 |             |                 |                                       |                                                                                                                               | H. HIRAMOTO 1988/10/14 |  | NEW MINI. FIT CONNECTOR CRIMP PIN HOUSING |  |              |  |                        |  |
|                   |                     |  |            |             |                 |                                       |                                                                                                                               | CHECKED BY DATE        |  | MOLEX MOLEX INCORPORATED                  |  |              |  |                        |  |
|                   |                     |  |            |             |                 |                                       |                                                                                                                               | Y. YAMADA 1988/10/21   |  |                                           |  |              |  |                        |  |
|                   |                     |  |            |             |                 |                                       |                                                                                                                               | APPROVED BY DATE       |  | MOLEX INCORPORATED                        |  |              |  |                        |  |
|                   |                     |  |            |             |                 |                                       |                                                                                                                               | M. ENOMOTO 1988/10/24  |  |                                           |  |              |  |                        |  |
|                   |                     |  |            |             |                 |                                       |                                                                                                                               | MATERIAL NO.           |  | DOCUMENT NO.                              |  | SHEET NO.    |  |                        |  |
|                   |                     |  |            |             |                 |                                       |                                                                                                                               | SEE CHART              |  | SD-5559-NP                                |  | 1 OF 2       |  |                        |  |
|                   |                     |  |            |             | SIZE            |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |  |                                           |  |              |  |                        |  |



CIRCUIT SIZE LAYOUT (SCALE : 2-1)

| V-2<br>BLACK |             |         |
|--------------|-------------|---------|
|              |             | 24      |
|              |             | 22      |
|              |             | 20      |
|              |             | 18      |
|              |             | 16      |
|              |             | 14      |
|              |             | 12      |
|              |             | 10      |
|              |             | 8       |
| 39-02-8065   | 5569-06P-BL | 6       |
| 39-02-8045   | 5569-04P-BL | 4       |
| EDP NO.      | ENG. NO.    | CIRCUIT |

| V-2<br>BLUE |             |         |
|-------------|-------------|---------|
|             |             | 24      |
|             |             | 22      |
|             |             | 20      |
|             |             | 18      |
|             |             | 16      |
|             |             | 14      |
|             |             | 12      |
|             |             | 10      |
|             |             | 8       |
| 39-02-8046  | 5569-04P-BU | 6       |
| 39-02-8047  | 5559-04P-RE | 4       |
| EDP NO.     | ENG. NO.    | CIRCUIT |

| V-2<br>RED |              |         | V-0<br>NATURAL |              |         | V-2<br>NATURAL |          |         |
|------------|--------------|---------|----------------|--------------|---------|----------------|----------|---------|
|            |              | 24      | 39-01-2246     | 5559-24P-210 | 24      | 39-01-2241     | 5559-24P | 24      |
|            |              | 22      | ↑ -2226        | -22P-210     | 22      | ↑ -2221        | -22P     | 22      |
|            |              | 20      | ↑ -2206        | -20P-210     | 20      | ↑ -2201        | -20P     | 20      |
|            |              | 18      | ↑ -2186        | -18P-210     | 18      | ↑ -2181        | -18P     | 18      |
|            |              | 16      | ↑ -2166        | -16P-210     | 16      | ↑ -2161        | -16P     | 16      |
|            |              | 14      | ↑ -2146        | -14P-210     | 14      | ↑ -2141        | -14P     | 14      |
|            |              | 12      | ↑ -2126        | -12P-210     | 12      | ↑ -2121        | -12P     | 12      |
|            |              | 10      | ↑ -2106        | -10P-210     | 10      | ↑ -2101        | -10P     | 10      |
|            |              | 8       | ↑ -2086        | -08P-210     | 8       | ↑ -2081        | -08P     | 8       |
|            |              | 6       | ↑ -2066        | -06P-210     | 6       | ↑ -2061        | -06P     | 6       |
| 39-02-8046 | 5569-04P-BU  | 4       | ↓ -2046        | -04P-210     | 4       | ↓ -2041        | -04P     | 4       |
| 39-01-2026 | 5559-02P-210 | 2       | 39-01-2021     | 5559-02P     | 2       | 39-01-2021     | 5559-02P | 2       |
| EDP NO.    | ENG. NO.     | CIRCUIT | EDP NO.        | ENG. NO.     | CIRCUIT | EDP NO.        | ENG. NO. | CIRCUIT |

|                                                                                                                         |                                      |                                       |  |                          |  |                                                                                                                                  |  |                                              |  |                        |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------|--|--------------------------|--|----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|--|------------------------|--|--|--|--|--|--|--|
| SEE SHEET 1<br>EC NO: UCP2010-0850<br>DRWN: JAGUILAR 2009/11/09<br>CHKD: J.BELL 2009/11/10<br>APPR: F.S.MITH 2009/11/10 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | DIMENSION STYLE<br>MM/IN |  | SCALE<br>2:1                                                                                                                     |  | DESIGN UNITS<br>METRIC                       |  | THIRD ANGLE PROJECTION |  |  |  |  |  |  |  |
|                                                                                                                         |                                      |                                       |  | DRAWN BY<br>H.HIRAMOTO   |  | DATE<br>1988/10/14                                                                                                               |  | NEW MINI. FIT CONNECTOR<br>CRIMP PIN HOUSING |  |                        |  |  |  |  |  |  |  |
|                                                                                                                         |                                      |                                       |  | CHECKED BY<br>Y.YAMADA   |  | DATE<br>1988/10/21                                                                                                               |  |                                              |  |                        |  |  |  |  |  |  |  |
|                                                                                                                         |                                      |                                       |  | APPROVED BY<br>M.ENOMOTO |  | DATE<br>1988/10/24                                                                                                               |  |                                              |  |                        |  |  |  |  |  |  |  |
|                                                                                                                         |                                      |                                       |  | MATERIAL NO.             |  | DOCUMENT NO.                                                                                                                     |  | MOLEX INCORPORATED<br>SD-5559-NP             |  |                        |  |  |  |  |  |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                              |                                      | ANGULAR ± 3 °                         |  | SEE CHART                |  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |                                              |  |                        |  |  |  |  |  |  |  |
| SIZE<br>C                                                                                                               |                                      |                                       |  |                          |  |                                                                                                                                  |  | SHEET NO.<br>2 OF 2                          |  |                        |  |  |  |  |  |  |  |