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Part Number:

0039291027

Status:

Active

Overview:

minifit\_jr

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Right Angle, with PCB Mounting Flange, 2 Circuits, PA Polyamide Nylon 6/6 94V-0, Tin (Sn) Plating

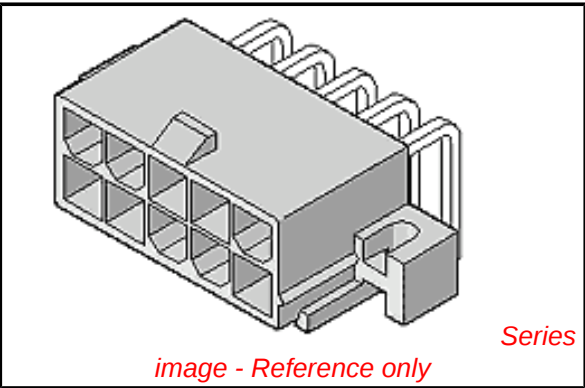
Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

|                                |                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certification           |                                                                                                                                                                                                                                                 |
| CSA                            | LR19980                                                                                                                                                                                                                                         |
| TUV                            | R72081037                                                                                                                                                                                                                                       |
| UL                             | E29179                                                                                                                                                                                                                                          |
| General                        |                                                                                                                                                                                                                                                 |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                     |
| Series                         | 5569                                                                                                                                                                                                                                            |
| 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)              | 2                                                                                                                                                                                                                                               |
| Circuits (maximum)             | 2                                                                                                                                                                                                                                               |
| Circuits Detail                | 2                                                                                                                                                                                                                                               |
| 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                    | Right Angle                                                                                                                                                                                                                                     |
| PCB Locator                    | Yes                                                                                                                                                                                                                                             |
| PCB Retention                  | Yes                                                                                                                                                                                                                                             |
| PCB Thickness Recommended (in) | 0.070 In                                                                                                                                                                                                                                        |
| PCB Thickness Recommended (mm) | 1.78 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)      | 276                                                                                                                                                                                                                                             |



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](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

5569Series

Mates With

5557 Mini-Fit Jr.™ Receptacle Housing

|                                    |                                                           |
|------------------------------------|-----------------------------------------------------------|
| Plating min: Mating (μm)           | 7.00                                                      |
| Plating min: Termination (μin)     | 200                                                       |
| Plating min: Termination (μm)      | 5.00                                                      |
| 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                                              |
| <b>Electrical</b>                  |                                                           |
| Current - Maximum per Contact      | 13A                                                       |
| Voltage - Maximum                  | 600V                                                      |
| <b>Material Info</b>               |                                                           |
| Old Part Number                    | 5569-02A1-210                                             |
| <b>Reference - Drawing Numbers</b> |                                                           |
| Packaging Specification            | PK-5569-NA*                                               |
| Product Specification              | RPS-5557-024, RPS-5557-031, RPS-5557-036,<br>RPS-5557-050 |
| Sales Drawing                      | SD-5569-002                                               |

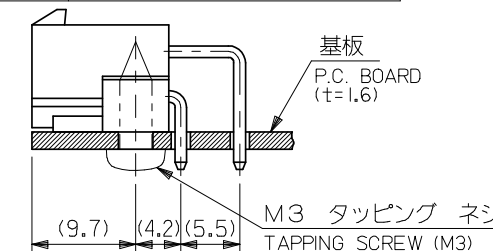
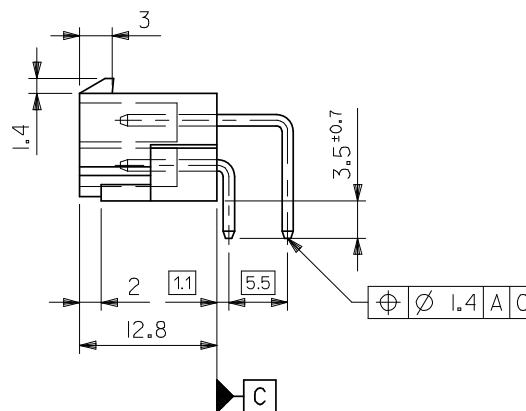
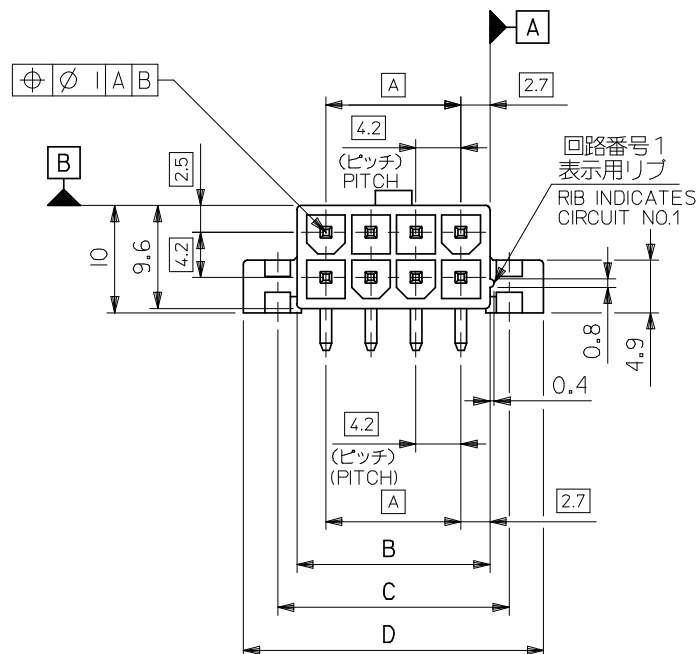
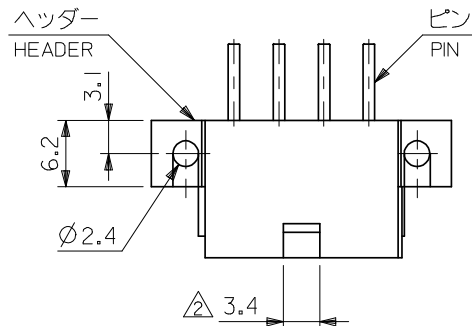
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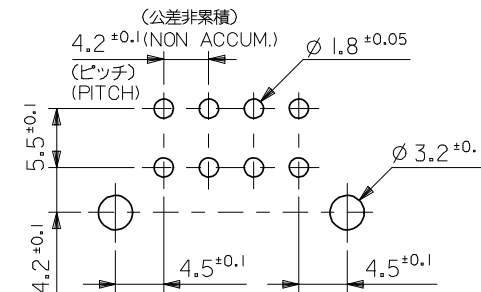
# 注記

1. 嵌合相手：5557シリーズ  
MATES WITH : 5557 SERIES
2. 2極の場合のみ本寸法は4.2  
IN CASE OF 2 CIRCUITS HEADER, THIS DIMENSION SHOULD BE 4.2mm.
3. 材料及びメッキ  
MATERIAL & FINISH

| ENG. NO.      | ヘッダー材料<br>HEADER MATERIAL            | ピン材料<br>PIN MATERIAL                                      | ピンのメッキ<br>FINISH OF PIN                                               |
|---------------|--------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------|
| 5569-NA1      | ナイロン66, UL94V-2<br>NYLON 66, UL94V-2 | 黄銅<br>( $\square 1.07$ )<br><br>BRASS<br>(1.07<br>SQUARE) | 銅下地錫メッキ<br>TIN OVER COPPER                                            |
| -NA1-210      | ナイロン66, UL94V-0<br>NYLON 66, UL94V-0 |                                                           |                                                                       |
| -NAG1         | ナイロン66, UL94V-2<br>NYLON 66, UL94V-2 |                                                           | 金 : $0.76\mu\text{m}$ MIN.<br>GOLD $0.76\mu\text{m}$ MIN.             |
| 5569-NAG1-210 | ナイロン66, UL94V-0<br>NYLON 66, UL94V-0 |                                                           | ニッケル下地 : $1.27\mu\text{m}$ MIN.<br>OVER NICKEL $1.27\mu\text{m}$ MIN. |



基板取付推奨寸法  
RECOMMENDED INSTALLATION PATTERN



基板穴推奨寸法  
RECOMMENDED P.C. BOARD PATTERN

|      |      |      |      |               |
|------|------|------|------|---------------|
| 61.6 | 55.2 | 51.6 | 46.2 | 24            |
| 57.4 | 51   | 47.4 | 42   | 22            |
| 53.2 | 46.8 | 43.2 | 37.8 | 20            |
| 49   | 42.6 | 39   | 33.6 | 18            |
| 44.8 | 38.4 | 34.8 | 29.4 | 16            |
| 40.6 | 34.2 | 30.6 | 25.2 | 14            |
| 36.4 | 30   | 26.4 | 21   | 12            |
| 32.2 | 25.8 | 22.2 | 16.8 | 10            |
| 28   | 21.6 | 18   | 12.6 | 8             |
| 23.8 | 17.4 | 13.8 | 8.4  | 6             |
| 19.6 | 13.2 | 9.6  | 4.2  | 4             |
| 15.4 | 9    | 5.4  | —    | 2             |
| D    | C    | B    | A    | 極数<br>CIRCUIT |

|                                                                            |                                                       |                                                                                                                                           |       |                            |                   |                                                  |                        |                           |  |  |
|----------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------------|-------------------|--------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2008-3781<br>DRWN:WABEI<br>CHKD:MISOGAYA<br>APPR:NUKITA | DESCRIPTION<br>2008/05/12<br>2008/05/12<br>2008/05/12 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                                                                                                  |       | DIMENSION STYLE<br>MM ONLY |                   | SCALE<br>2:1                                     | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                            |                                                       | 10 UNDER                                                                                                                                  | ± 0.2 | DRAWN BY<br>H. HIRAMOTO    | DATE<br>'90/04/23 | NEW MINI FIT CONN R/A<br>HEADER ASSY WITH FLANGE |                        |                           |  |  |
|                                                                            |                                                       | 10 OVER 30 UNDER                                                                                                                          | ± 0.3 | CHECKED BY<br>M. FUKUSHIMA | DATE<br>'91/07/04 |                                                  |                        |                           |  |  |
|                                                                            |                                                       | 30 OVER                                                                                                                                   | ± 0.4 | APPROVED BY<br>M. ENOMOTO  | DATE<br>'91/07/04 | molex MOLEX INCORPORATED                         |                        |                           |  |  |
|                                                                            |                                                       | ANGULAR ±3 °                                                                                                                              |       | MATERIAL NO.               |                   | DOCUMENT NO.                                     |                        | SHEET NO.                 |  |  |
|                                                                            |                                                       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                |       | SEE TABLE                  |                   | SD-5569-002                                      |                        | 1 OF 2                    |  |  |
| REV J                                                                      |                                                       | SIZE Δ 3 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                            |                   |                                                  |                        |                           |  |  |

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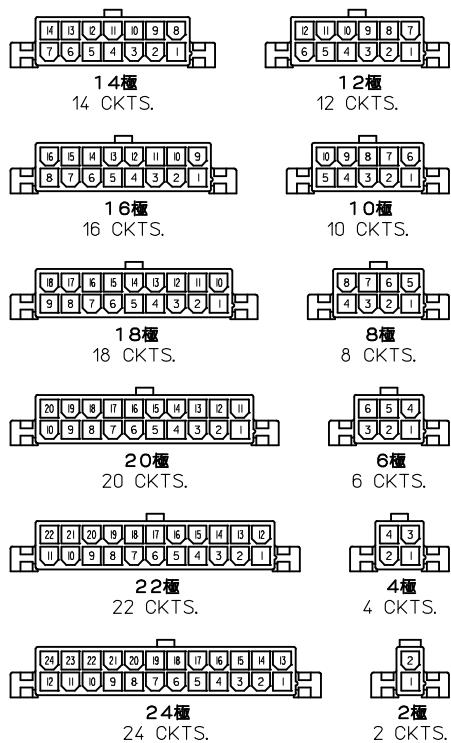
E

D

C

B

A



極数別レイアウト図  
CIRCUIT SIZE LAYOUT  
(SCALE 1:1)

|                |                 |               |                |         |
|----------------|-----------------|---------------|----------------|---------|
| 39-29-4249     | 5569-24AGI-2 IO | 39-29-1247    | 5569-24AI-2 IO | 24      |
| ▲ -4229        | ▲ -22AGI-2 IO   | ▲ -1227       | ▲ -22AI-2 IO   | 22      |
| -4209          | -20AGI-2 IO     | -1207         | -20AI-2 IO     | 20      |
| -4189          | -18AGI-2 IO     | -1187         | -18AI-2 IO     | 18      |
| -4169          | -16AGI-2 IO     | -1167         | -16AI-2 IO     | 16      |
| -4149          | -14AGI-2 IO     | -1147         | -14AI-2 IO     | 14      |
| -4129          | -12AGI-2 IO     | -1127         | -12AI-2 IO     | 12      |
| -4109          | -10AGI-2 IO     | -1107         | -10AI-2 IO     | 10      |
| -4089          | -08AGI-2 IO     | -1087         | -08AI-2 IO     | 8       |
| -4069          | -06AGI-2 IO     | -1067         | -06AI-2 IO     | 6       |
| ▼ -4049        | ▼ -04AGI-2 IO   | ▼ -1047       | ▼ -04AI-2 IO   | 4       |
| 39-29-4029     | 5569-02AGI-2 IO | 39-29-1027    | 5569-02AI-2 IO | 2       |
| EDP NO.        | ENG. NO.        | EDP NO.       | ENG. NO.       | 極数      |
| 5569-NAGI-2 IO |                 | 5569-NAI-2 IO |                | CIRCUIT |
| 39-29-5243     | 5569-24AGI      | 39-29-1248    | 5569-24AI      | 24      |
| ▲ -5223        | ▲ -22AGI        | ▲ -1228       | ▲ -22AI        | 22      |
| -5203          | -20AGI          | -1208         | -20AI          | 20      |
| -5183          | -18AGI          | -1188         | -18AI          | 18      |
| -5163          | -16AGI          | -1168         | -16AI          | 16      |
| -5143          | -14AGI          | -1148         | -14AI          | 14      |
| -5123          | -12AGI          | -1128         | -12AI          | 12      |
| -5103          | -10AGI          | -1108         | -10AI          | 10      |
| -5083          | -08AGI          | -1088         | -08AI          | 8       |
| -5063          | -06AGI          | -1068         | -06AI          | 6       |
| ▼ -5043        | ▼ -04AGI        | ▼ -1048       | ▼ -04AI        | 4       |
| 39-29-5023     | 5569-02AGI      | 39-29-1028    | 5569-02AI      | 2       |
| EDP NO.        | ENG. NO.        | EDP NO.       | ENG. NO.       | 極数      |
| 5569-NAGI      |                 | 5569-NAI      |                | CIRCUIT |

REVISED

EC NO.: J2008-3781

DRWN: MNABEI 2008/05/12

CHKD: MISOGAYA 2008/05/12

APPR: NUKITA 2008/05/12

REV J

DESCRIPTION

GENERAL TOLERANCES (UNLESS SPECIFIED)

10 UNDER ±0.2

10 OVER 30 UNDER ±0.3

30 OVER ±0.4

ANGULAR ±3 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY H.HIRAMOTO

DATE '90/04/23

CHECKED BY M.FUKUSHIMA

DATE '91/07/04

APPROVED BY M.ENOMOTO

DATE '91/07/04

MATERIAL NO.

SIZE A3

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SCALE

2:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

NEW MINI FIT CONN R/A HEADER ASSY WITH FLANGE

DOCUMENT NO.

SD-5569-002

SHEET NO.

2 OF 2

moLEX

MOLEX INCORPORATED