

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0039281243

Status:

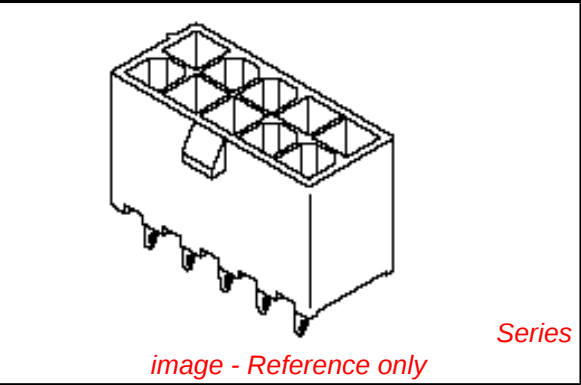
Active

Overview:

[minifit\\_jr](#)

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, without Snap-in Plastic Peg PCB Lock, 24 Circuits, PA Polyamide Nylon 6/6 94V-2, Tin (Sn) Plating, without Drain Holes



Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[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 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)              | 24                                                                                                                                                                                                                                                                                         |  |
| Circuits (maximum)             | 24                                                                                                                                                                                                                                                                                         |  |
| Color - Resin                  | Natural                                                                                                                                                                                                                                                                                    |  |
| Durability (mating cycles max) | 30                                                                                                                                                                                                                                                                                         |  |
| First Mate / Last Break        | No                                                                                                                                                                                                                                                                                         |  |
| Flammability                   | 94V-2                                                                                                                                                                                                                                                                                      |  |
| 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                  | 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                                                                                                                                                                                                                                                                                    |  |

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)          | 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                |
| <b>Electrical</b>                  |                             |
| Current - Maximum per Contact      | 13A                         |
| Voltage - Maximum                  | 600V                        |
| <b>Material Info</b>               |                             |
| Old Part Number                    | 5566-24A                    |
| <b>Reference - Drawing Numbers</b> |                             |
| Packaging Specification            | PK-5566, SPK-5566-002       |
| Sales Drawing                      | SD-5566-002, SD-5566-NA**-* |

This document was generated on 05/21/2010

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| CIRCUIT SIZE | DIM. "A"       | DIM. "B"       |
|--------------|----------------|----------------|
| 2            | .21<br>(5.4)   | —              |
| 4            | .38<br>(9.6)   | .17<br>(4.2)   |
| 6            | .54<br>(13.8)  | .33<br>(8.4)   |
| 8            | .71<br>(18.0)  | .50<br>(12.6)  |
| 10           | .87<br>(22.2)  | .66<br>(16.8)  |
| 12           | 1.04<br>(26.4) | .83<br>(21.0)  |
| 14           | 1.20<br>(30.6) | .99<br>(25.2)  |
| 16           | 1.37<br>(34.8) | 1.16<br>(29.4) |
| 18           | 1.54<br>(39.0) | 1.32<br>(33.6) |
| 20           | 1.70<br>(43.2) | 1.49<br>(37.8) |
| 22           | 1.87<br>(47.4) | 1.65<br>(42.0) |
| 24           | 2.03<br>(51.6) | 1.82<br>(46.2) |

# LEGEND

BASE NUMBER 5566 - N \* \* \* \* \*

CIRCUIT SIZE

ASS'Y TYPE  
A : WITHOUT DRAIN HOLES  
B : WITH DRAIN HOLES

TERMINAL MATERIAL  
SEE NOTE 1

TERMINAL PLATING  
SEE NOTE 2

HOUSING MATERIAL  
SEE NOTE 1

COLOR OR PACKAGING  
BL : BLACK RE : RED GR : GRAY  
BU : BLUE YE : YELLOW GRE : GREEN  
TA : TRAY PACKAGING SEE NOTE 4

## NOTES:

### 1. MATERIALS:

#### HOUSING:

'BLANK'=NYLON 6/6, UL94V-2, COLOR: NATURAL

\*210\*=NYLON 6/6, UL94V-0, COLOR: NATURAL

\*400\*=NYLON 6/6, UL94V-0, COLOR: BLACK

#### TERMINALS:

\*BLANK\* = BRASS

\*PB\* = PHOSPHOR BRONZE

### 2. TERMINAL PLATING:

\*BLANK\* = BRIGHT TIN .000035/(0.00090) MIN.

OVER COPPER .000020/(0.00050) MIN. (BRASS)

TIN .000035/(0.00090) MIN. REFLOW TREATMENT

OR BRIGHT TIN .000035/(0.00090) MIN. (PHOSPHOR BRONZE)

\*S\*=.000100/(0.00254) MIN. BRIGHT TIN OVER

.000050/(0.00127) MIN. NICKEL

\*GS2\*=.000015/(0.00038) MIN. SELECT GOLD AND

.000100/(0.00254) MIN. SELECT MATTE TIN

OVER .000050/(0.00127) MIN. NICKEL OVERALL

\*GS\*=.000030/(0.00076) MIN. SELECT GOLD AND

.000100/(0.00254) MIN. SELECT MATTE TIN

OVER .000050/(0.00127) MIN. NICKEL OVERALL

### 3. PRODUCT SPECIFICATION: PS-5556-001

### 4. PACKAGING: \*BLANK\*= BULK PACKED, \*TA\*=TRAY PACK PER PK-5566-001

### 5. PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.

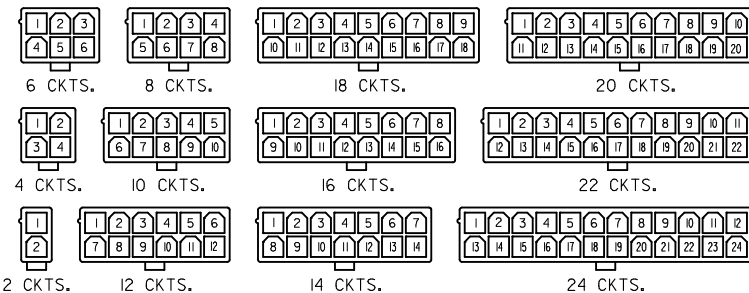
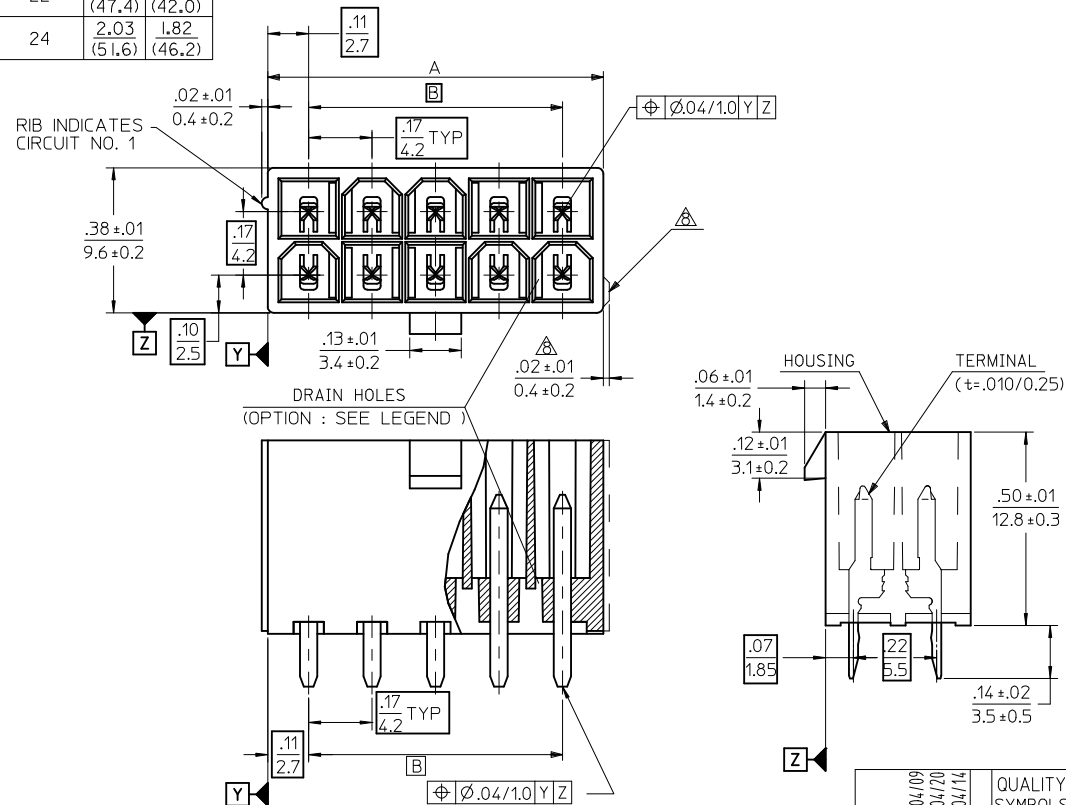
### 6. PART IS NOT DESIGNED FOR CURRENT SHARING.

### 7. PARTS ARE NOT DESIGNED TO BE MATED OR UN-MATED

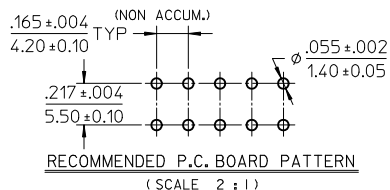
### WHILE CIRCUITS ARE LIVE.

### 8. ANTI-SHINGLING RIB MAY OR MAY NOT APPEAR ON HOUSINGS.

### 9. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

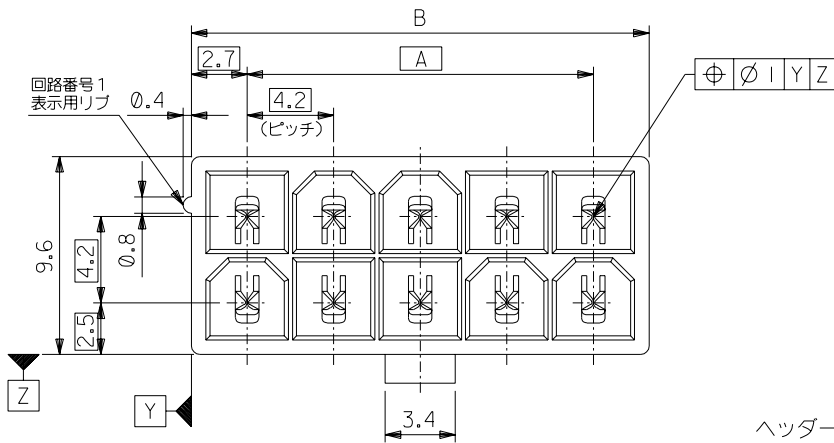


## CIRCUIT SIZE LAYOUT

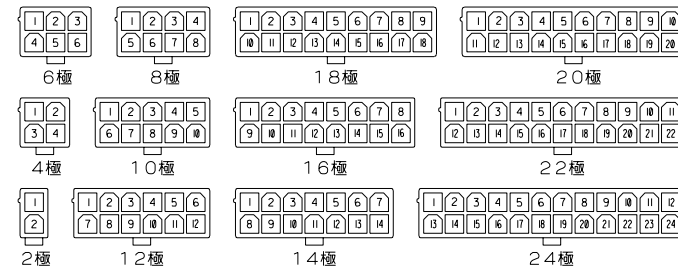


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|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------|-------|------------------------------------------------------------|-----------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|
| CORRECTED PN<br>EC NO: UCP2010-2614<br>DRWN: JAGUILAR<br>CHKD: J.BELL<br>APPR: F.S.MITH<br>REV L3 | DESCRIPTION                                                                                                                   | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |       | DIMENSION STYLE<br>IN/MM                                   |                             | SCALE<br>4:1        | DESIGN UNITS<br>METRIC                                                                                                                                                                     |  THIRD ANGLE<br>PROJECTION |              |
|                                                                                                   |                                                                                                                               |                                      |                                       | mm    | INCH                                                       | DRAWN BY<br>H. HIRAMOTO     | DATE<br>'89/04/03   | TITLE<br><br>NEW MINI FIT CONNECTOR<br>HEADER HOUSING ASS'Y<br>-LEAD FREE-<br><br> MOLEX INCORPORATED |                                                                                                                 |              |
|                                                                                                   |                                                                                                                               |                                      | 4 PLACES                              | ± --- | ± ---                                                      | CHECKED BY<br>M. FUKUSHIMA  | DATE<br>'94/04/20   |                                                                                                                                                                                            |                                                                                                                 |              |
|                                                                                                   |                                                                                                                               |                                      | 3 PLACES                              | ± --- | ± .005                                                     | APPROVED BY<br>M. FUKUSHIMA | DATE<br>'94/04/20   |                                                                                                                                                                                            |                                                                                                                 |              |
|                                                                                                   |                                                                                                                               |                                      | 2 PLACES                              | ± .13 | ± .010                                                     | MATERIAL NO.                |                     |                                                                                                                                                                                            |                                                                                                                 | DOCUMENT NO. |
|                                                                                                   |                                                                                                                               |                                      | 1 PLACE                               | ± .25 | ± ---                                                      | SEE TABLE                   |                     |                                                                                                                                                                                            |                                                                                                                 | SD-5566-002  |
|                                                                                                   |                                                                                                                               |                                      | ANGULAR ± 3 °                         |       | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                             | SHEET NO.<br>1 OF 6 |                                                                                                                                                                                            |                                                                                                                 |              |
| REV                                                                                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                      |                                       |       |                                                            |                             |                     |                                                                                                                                                                                            |                                                                                                                 |              |

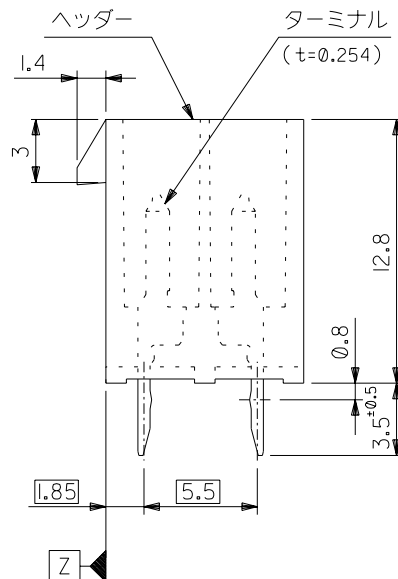
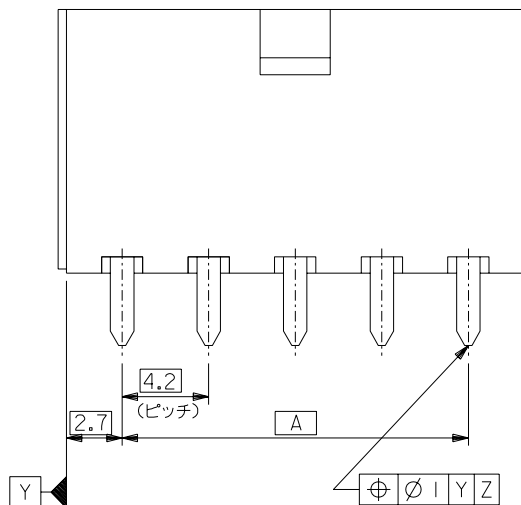




|      |      |    |
|------|------|----|
| 51.6 | 46.2 | 24 |
| 47.4 | 42   | 22 |
| 43.2 | 37.8 | 20 |
| 39   | 33.6 | 18 |
| 34.8 | 29.4 | 16 |
| 30.6 | 25.2 | 14 |
| 26.4 | 21   | 12 |
| 22.2 | 16.8 | 10 |
| 18   | 12.6 | 8  |
| 13.8 | 8.4  | 6  |
| 9.6  | 4.2  | 4  |
| 5.4  | —    | 2  |
| 寸法 B | 寸法 A | 極数 |



極数別レイアウト図  
(SCALE 1:1)



# 注 記

1. 嵌合相手 : 5557シリーズ

2. 使用符号の説明

ベースナンバー 5566 - N A \* \* - \*

極数

アッセンブリー

ターミナル材料

"BLANK" : 黄銅

PB : リン青銅

ターミナルのメッキ

"BLANK" : 錫メッキ 0.9μm MIN.

GS : ニッケル 1.27μm MIN. 全面下地

コンタクト部 金 0.76μm MIN.

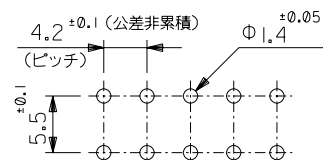
半田付け部 錫 2.54μm MIN.

ヘッダー材料

"BLANK" : ナイロン 66, UL 94V-2

210 : ナイロン 66, UL 94V-0

400 : ナイロン 66, UL 94V-0, 黒



基板穴推奨寸法  
(SCALE 2:1)

|  |  |  |  |                                                                |  |                                        |  |
|--|--|--|--|----------------------------------------------------------------|--|----------------------------------------|--|
|  |  |  |  | 材料 MATERIAL                                                    |  | MOLEX-JAPAN CO.,LTD.<br>日本モレックス株式会社    |  |
|  |  |  |  | 注記 2 参照                                                        |  | EDP. NO.<br>SHEET 2 OF 2 参照            |  |
|  |  |  |  | 仕上げ FINISH 注記 2 参照                                             |  | ENG. NO. SHEET 1 OF 2<br>SD-5566-NA*** |  |
|  |  |  |  | 適用電線範囲 WIRE RANGE                                              |  | REV. F                                 |  |
|  |  |  |  | 被覆外径 INS. RANGE                                                |  |                                        |  |
|  |  |  |  | DRAWN BY '89/5/7 H.HIRAMOTO                                    |  | CHK'D BY '91/10/29 M.FUKUSHIMA         |  |
|  |  |  |  | APP'D BY '91/10/29 M.ENOMOTO                                   |  | 尺 度 SCALE 4 - 1                        |  |
|  |  |  |  | TITLE 名称<br>NEW MINI FIT CONNECTOR<br>HEADER ASS'Y -LEAD FREE- |  |                                        |  |
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