

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0442060002

Status:

Active

Overview:

minifit\_jr

Description:

4.20mm (.165") Pitch Mini-Fit Jr.™ Header, Dual Row, Vertical, with 11.90mm (.469") Locking Ramp, 24 Circuits, without Snap-in Platistic Pegs

Documents:

3D Model

RoHS Certificate of Compliance (PDF)

Drawing (PDF)

|                |                                                                                                                                                                                                                                                 |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General        |                                                                                                                                                                                                                                                 |
| Product Family | PCB Headers                                                                                                                                                                                                                                     |
| Series         | 44206                                                                                                                                                                                                                                           |
| 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)              | 24       |
| Circuits (maximum)             | 24       |
| Color - Resin                  | Natural  |
| Durability (mating cycles max) | 30       |
| First Mate / Last Break        | No       |
| Glow-Wire Compliant            | No       |
| Guide to Mating Part           | Yes      |
| Keying to Mating Part          | Yes      |
| 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)            | 0.130 In |
| PC Tail Length (mm)            | 3.30 mm  |
| PCB Locator                    | Yes      |
| PCB Retention                  | Yes      |
| PCB Thickness Recommended (in) | 0.070 In |
| PCB Thickness Recommended (mm) | 1.80 mm  |
| Packaging Type                 | Tray     |
| Pitch - Mating Interface (in)  | 0.165 In |
| Pitch - Mating Interface (mm)  | 4.20 mm  |
| Plating min: Mating (µin)      | 35       |
| Plating min: Mating (µm)       | 0.88     |
| Plating min: Termination (µin) | 35       |
| Plating min: Termination (µm)  | 0.88     |
| Polarized to PCB               | Yes      |
| Shrouded                       | Fully    |
| Stackable                      | No       |
| Surface Mount Compatible (SMC) | No       |

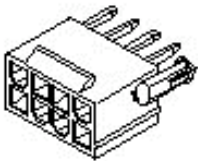


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

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

44206Series

Mates With

5557 Mini-Fit Jr.™ Receptacle Housing

|                               |                 |
|-------------------------------|-----------------|
| Temperature Range - Operating | -40°C to +105°C |
| Termination Interface: Style  | Through Hole    |

**Electrical**

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

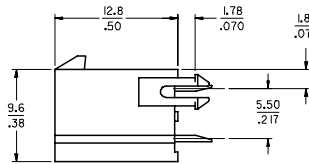
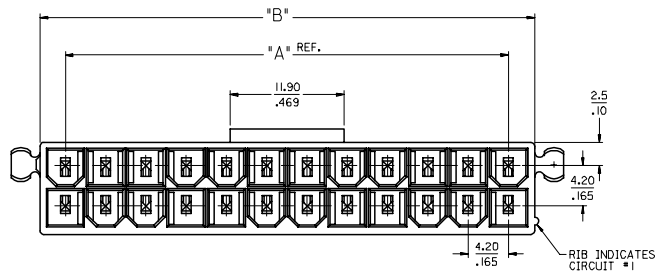
**Material Info**

**Reference - Drawing Numbers**

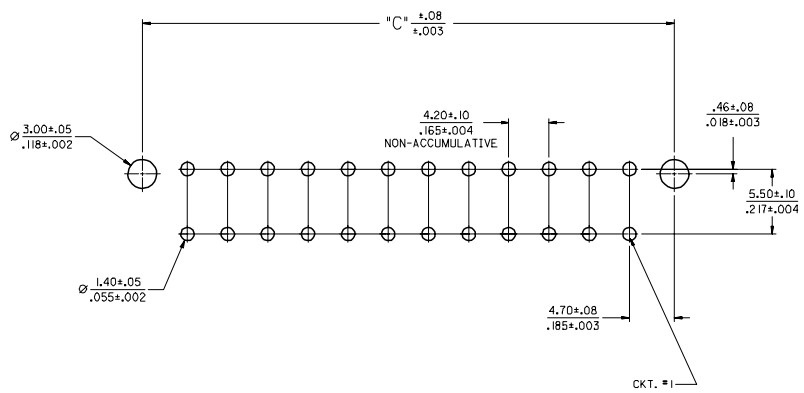
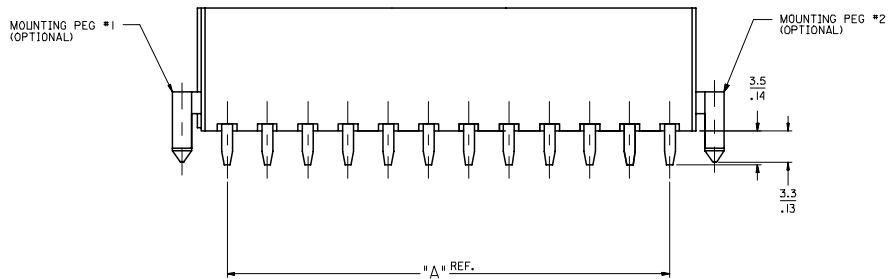
|               |               |
|---------------|---------------|
| Sales Drawing | SDA-44206-001 |
|---------------|---------------|

This document was generated on 05/24/2010

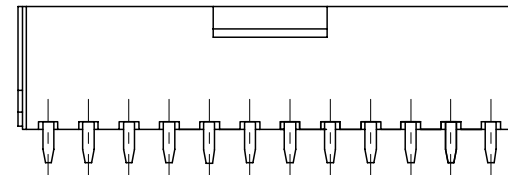
**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**



| MATERIAL NUMBER | CKT SIZE | DRAIN HOLES | MOUNTING OPTION | FINISH | HOUSING MATERIAL |
|-----------------|----------|-------------|-----------------|--------|------------------|
| 44206-0001      | 24 CKT.  | WITH        | BOTH PEGS       | A      | A                |
| 44206-0002      | 24 CKT.  | WITH        | NO PEGS         | A      | A                |
| 44206-0003      | 8 CKT.   | WITH        | BOTH PEGS       | A      | A                |
| 44206-0004      | 8 CKT.   | WITH        | PEG 1 ONLY      | A      | A                |
| 44206-0005      | 8 CKT.   | WITH        | PEG 2 ONLY      | A      | A                |
| 44206-0006      | 8 CKT.   | WITH        | NO PEGS         | A      | A                |
| 44206-0007      | 24 CKT.  | WITH        | PEG 2 ONLY      | A      | A                |



RECOMMENDED HOLE LAYOUT FOR .070/(.178) MAX. THICK P. C. BOARD  
(SEE NOTE 6)



44206 SERIES  
(SHOWN WITHOUT MOUNTING PEGS)

# NOTES:

- HOUSING MATERIAL:  
A - NYLON 6/6, U.L. 94V-2, COLOR: NATURAL.  
B - NYLON 6/6, U.L. 94V-0, COLOR: NATURAL.  
TERMINAL MATERIAL: BRASS ALLOY 260
- FINISH  
A - .000035/(.00090) MIN. BRIGHT TIN OVER .000020/(.00050) MIN. COPPER.  
B - .000030/(.00076) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.  
C - .000015/(.00038) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.  
D - .000100/(.00254) MIN. BRIGHT TIN OVER .000050/(.00127) MIN. NICKEL.

- THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO ROHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
- PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: SEE: PS-5556-0001.
- PART MATES WITH MIN-I-FIT JR. RECEPTACLE #5557.
- MOUNTING OPTIONS: SEE CHART
- LOCATION OF 3.00/(.118) DIA. HOLES ON P.C. BOARD IS FOR OPTIONAL PEGS.
- CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- CONNECTORS ARE NOT TO BE MATED OR UN-MATED WHILE CIRCUITS ARE LIVE.

| CIRCUIT SIZE | DIM. "A"       | DIM. "B"       | DIM. "C"         |
|--------------|----------------|----------------|------------------|
| 8            | .50<br>(12.6)  | .71<br>(18.0)  | .866<br>(22.00)  |
| 10           | .66<br>(16.8)  | .87<br>(22.2)  | 1.031<br>(26.20) |
| 12           | .83<br>(21.0)  | 1.04<br>(26.4) | 1.197<br>(30.40) |
| 14           | .99<br>(25.2)  | 1.20<br>(30.6) | 1.362<br>(34.60) |
| 16           | 1.16<br>(29.4) | 1.37<br>(34.8) | 1.528<br>(38.80) |
| 18           | 1.32<br>(33.6) | 1.54<br>(39.0) | 1.693<br>(43.00) |
| 20           | 1.49<br>(37.8) | 1.70<br>(43.2) | 1.858<br>(47.20) |
| 22           | 1.65<br>(42.0) | 1.87<br>(47.4) | 2.024<br>(51.40) |
| 24           | 1.82<br>(46.2) | 2.03<br>(51.6) | 2.189<br>(55.60) |

|                                                                                                                                                            |                               |                                                                                                                                           |  |                                                                                                                                                   |  |                               |                        |                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|------------------------|------------------------|
| <b>TRANSF. DESIGN CONTROL</b><br>EC NO: UCP2005-2452<br>DRAWN BY: JRM/STEWART 2005/05/09<br>CHECKED BY: CH/KAPULGAR 2005/05/11<br>APPR: MM/GILL 2005/05/16 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>DIM. INCH<br>4 PLACES ±.005<br>3 PLACES ±.005<br>2 PLACES ±.01<br>1 PLACE ±.025<br>ANGULAR ±1/2° |  | DIMENSION STYLE<br>MM/IN<br>DRAWN BY: L. MOSLEY 07/03/98<br>CHECKED BY: DATE 07/03/98<br>BANDURA 07/03/98<br>APPROVED BY: DATE 07/03/98<br>EDGLEY |  | SCALE<br>4:1                  | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION |
|                                                                                                                                                            |                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                      |  | SEE CHART                                                                                                                                         |  | MATERIAL NO.<br>SDA-44206-001 |                        | SHEET NO.<br>1 OF 1    |
|                                                                                                                                                            |                               | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION             |  | MOLEX INCORPORATED                                                                                                                                |  | MOLEX INCORPORATED            |                        |                        |
|                                                                                                                                                            |                               | MOLEX INCORPORATED                                                                                                                        |  | MOLEX INCORPORATED                                                                                                                                |  | MOLEX INCORPORATED            |                        |                        |