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**ELECTRONICS**

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Jameco Part Number 799001

## FEATURES AND SPECIFICATIONS

### Features and Benefits

- Positive housing locks to mate with Mini-Fit, Jr. single row receptacles 5557
- Fully isolated terminals to protect contacts from damage
- Peg-mounted vertical headers for increased board retention
- Drain hole option available in vertical headers

### Reference Information

Product Specification: PS-5556-0001  
 Packaging: Tray or bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 TUV License No.: R75142  
 Mates With: [5557](#) single row receptacle  
 Designed In: Millimeters

### Electrical

Voltage: 600V  
 Current: (Used with 16 AWG)

| Circuits    | 2-3 | 4-6 | 7-10 | 12-24 |
|-------------|-----|-----|------|-------|
| Amperes-Jr. | 9   | 8   | 7    | 6     |

### Electrical (cont'd)

Contact Resistance: 10mΩ max.  
 Dielectric Withstanding Voltage: 1500V AC  
 Insulation Resistance: 1000 MΩ min.

### Mechanical

Contact Insertion Force: 1.5kg max.  
 Contact Retention to Housing: 3.0kg min.  
 Wire Pull-Out Force: 9.0kg min.  
 Insertion Force to PCB: 5.0kg max.  
 Mating Force: 0.7kg (1.54 lb) max.  
 Unmating Force: 0.35kg (0.7 lb) min.  
 Normal Force: 200g min.  
 Durability: 30 cycles

### Physical

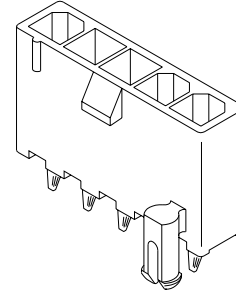
Housing: 6/6 nylon, UL 94V-2 or 94V-0  
 Contact: Brass or Phosphor Bronze  
 Plating: Tin, select Gold or overall Gold  
 Operating Temperature: -40 to +105°C



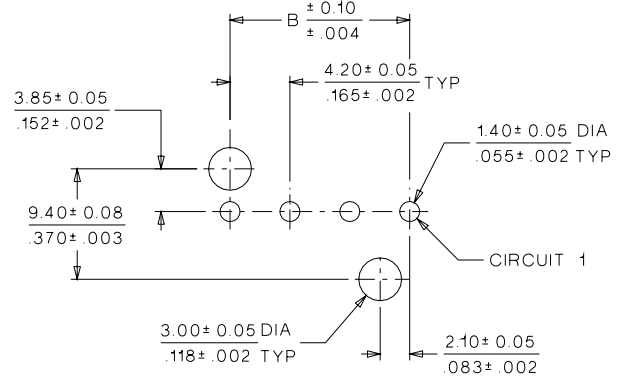
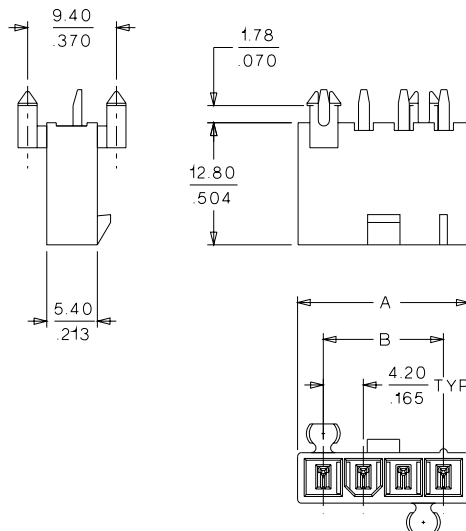
## 4.20mm (.165") Pitch Mini-Fit, Jr.™ Header

**5566**

### Vertical, Single Row With Pegs



## CATALOG DRAWING (FOR REFERENCE ONLY)



PCB LAYOUT: COMPONENT SIDE

RECOMMENDED PCB THICKNESS: 1.78 (.070) MAX

## ORDERING INFORMATION AND DIMENSIONS

| Circuits | Order No.    |              |                    |              | Drain Holes | Dimension    |              |
|----------|--------------|--------------|--------------------|--------------|-------------|--------------|--------------|
|          | Tin Plated   |              | Gold Plated (30μ") |              |             | A            | B            |
|          | 94V-2        | 94V-0        | 94V-2              | 94V-0        |             |              |              |
| 3        | ● 39-30-1039 | ● 39-30-2030 | ● 39-30-2031       | ● 39-30-2032 | No          | 13.80 (.543) | 8.40 (.331)  |
|          | ● 39-30-2035 | ● 39-30-2036 | ● 39-30-2037       | ● 39-30-2038 | Yes         |              |              |
| 4        |              |              |                    |              | No          | 18.00 (.709) | 12.60 (.496) |
|          | ● 39-30-2045 |              | ● 39-30-2047       |              | Yes         |              |              |
| 5        |              | ● 39-30-2050 |                    | ● 39-30-2052 | No          | 22.20 (.874) | 16.80 (.661) |
|          |              | ● 39-30-2056 |                    | ● 39-30-2058 | Yes         |              |              |

• US Standard Product, available through Molex franchised distributors



# PRODUCT SPECIFICATION

## MINI-FIT JR.

### 1.0 SCOPE

This Product Specification covers performance requirements for the MINI-FIT JR. 4.20 mm (.165 inch) centerline (pitch) printed circuit board (PCB) connector series with Tin or Gold plating, and The MINI-FIT JR. connector series terminated with 16 to 28 AWG wire using Crimp technology with Tin or Gold plating.

### 2.0 PRODUCT DESCRIPTION

#### 2.1 PRODUCT NAME AND SERIES NUMBER (S)

| <u>PRODUCT NAME</u>         | <u>PART NUMBER</u> |
|-----------------------------|--------------------|
| Female Crimp Terminal       | 5556-****          |
| Male Crimp Terminal         | 5558-****          |
| Receptacle Housing          | 5557-****          |
| Plug Housing                | 5559-****          |
| Vertical Header Assembly    | 5566-****          |
| Right Angle Header Assembly | 5569-****          |

#### 2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for the information on dimensions, materials, platings and markings.

#### 2.3 SAFETY AGENCY APPROVALS

UL File: E29179  
CSA Certificate: LR 19980  
TUV Certificate: R75142-8

### 3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See sales drawings and the other sections of this specification for the necessary referenced documents and specifications

### 4.0 RATINGS

#### 4.1 VOLTAGE

600 Volts AC (RMS) (or 600 Volts DC)

#### 4.2 CURRENT AND APPLICABLE WIRES

|                                                              |                               |
|--------------------------------------------------------------|-------------------------------|
| Maximum Insulation Diameter<br>and<br>Applicable Wire Gauges | 16 AWG: 3.10/. 122 MAXIMUM    |
|                                                              | 18-24 AWG: 3.10/. 122 MAXIMUM |
|                                                              | 22-28 AWG: 1.80/. 071 MAXIMUM |

|                                               |                                                                                          |                                                                                         |                                        |
|-----------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|
| <u>REVISION:</u><br><b>C</b>                  | <u>ECR/ECN INFORMATION:</u><br><u>EC No:</u> UCP2004-2349<br><u>DATE:</u> 2004 / 05 / 25 | <u>TITLE:</u><br><b>PRODUCT SPECIFICATION FOR<br/>MINI-FIT JR.<br/>CONNECTOR SYSTEM</b> | <u>SHEET No.</u><br><b>1 of 5</b>      |
| <u>DOCUMENT NUMBER:</u><br><b>PS-5556-001</b> | <u>CREATED / REVISED BY:</u><br><b>BANDURA</b>                                           | <u>CHECKED BY:</u><br><b>BANDURA</b>                                                    | <u>APPROVED BY:</u><br><b>MARGULIS</b> |



# PRODUCT SPECIFICATION

## 4.2 CURRENT AND APPLICABLE WIRES (continued)

| MAXIMUM CURRENT RATING (Amperes) |       |       |        |         |                  |       |       |        |         |
|----------------------------------|-------|-------|--------|---------|------------------|-------|-------|--------|---------|
| Brass                            |       |       |        |         | Phosphor Bronze  |       |       |        |         |
| Wire \ Ckt. Size                 | 2 & 3 | 4 - 6 | 7 - 10 | 12 - 24 | Wire \ Ckt. Size | 2 & 3 | 4 - 6 | 7 - 10 | 12 - 24 |
| AWG #16                          | 9     | 8     | 7      | 6       | AWG #16          | 8     | 7     | 6      | 5       |
| AWG #18                          | 9     | 8     | 7      | 6       | AWG #18          | 8     | 7     | 6      | 5       |
| AWG #20                          | 7     | 6     | 5      | 5       | AWG #20          | 6     | 5     | 4      | 4       |
| AWG #22                          | 5     | 4     | 4      | 4       | AWG #22          | 4     | 3     | 3      | 3       |
| AWG #24                          | 4     | 3     | 3      | 3       | AWG #24          | 3     | 2     | 2      | 2       |
| AWG #26                          | 3     | 2     | 2      | 2       | AWG #26          | 2     | 1     | 1      | 1       |
| AWG #28                          | 2     | 1     | 1      | 1       | AWG #28          | 1     | 1     | 1      | 1       |

## 4.3 TEMPERATURE

Operating: \* - 40°C to + 105°C

Nonoperating: - 40°C to + 105°C

\*Including 30°C terminal temperature at rated current

## 5.0 PERFORMANCE

### 5.1 ELECTRICAL REQUIREMENTS

| ITEM | DESCRIPTION                                        | TEST CONDITION                                                                                                                       | REQUIREMENT                          |
|------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 1    | Contact Resistance (Low Level)                     | Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. Wire resistance shall be removed from the measured value. | 10 milliohms<br>MAXIMUM<br>[initial] |
| 2    | Contact Resistance @ Rated Current                 | Mate connectors: apply a maximum voltage of 20 mV at rated current.                                                                  | 10 milliohms<br>MAXIMUM<br>[initial] |
| 3    | Contact Resistance of Wire Termination (Low Level) | Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.                     | 5 milliohms<br>MAXIMUM<br>[initial]  |
| 4    | Insulation Resistance                              | Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.                              | 1000 Megohms<br>MINIMUM              |

|                  |                                             |                                                               |              |
|------------------|---------------------------------------------|---------------------------------------------------------------|--------------|
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| DOCUMENT NUMBER: | CREATED / REVISED BY:                       | CHECKED BY:                                                   | APPROVED BY: |
| PS-5556-001      | BANDURA                                     | BANDURA                                                       | MARGULIS     |



# PRODUCT SPECIFICATION

## 5.1 ELECTRICAL REQUIREMENTS (continued)

| ITEM | DESCRIPTION                                   | TEST CONDITION                                                                                                                                                                                             | REQUIREMENT                             |
|------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 5    | <b>Dielectric Withstanding Voltage</b>        | Mate connectors: apply a voltage of 1500 VAC for 1 minute between adjacent terminals and between terminals to ground.                                                                                      | No breakdown.<br>Current leakage < 5 mA |
| 6    | <b>Temperature Rise (via Current Cycling)</b> | Mate connectors. Measure the temperature rise at the rated current after 96 hours, during current cycling (45 minutes ON and 15 minutes OFF per hour) for 240 hours, and after final 96-hour steady state. | Temperature rise:<br>+30°C MAXIMUM      |

## 5.2 MECHANICAL REQUIREMENTS

| ITEM | DESCRIPTION                                     | TEST CONDITION                                                                                                                                        | REQUIREMENT                                                                                                                                                                                                                                       |
|------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | <b>Terminal Insertion and Withdrawal Forces</b> | Insert and withdraw terminal (male to female) at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute.                                      | 14.7 N (3.30 lbf)<br>MAXIMUM insertion force<br>&<br>1.0 N (0.02 lbf)<br>MINIMUM withdrawal force                                                                                                                                                 |
| 2    | <b>Terminal Retention Force (in Housing)</b>    | Axial pullout force on the terminal in the housing at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute.                                 | 30 N (6.74 lbf)<br>MINIMUM retention force                                                                                                                                                                                                        |
| 3    | <b>Durability</b>                               | Mate connectors up to 30 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.                                               | 20 milliohms MAXIMUM                                                                                                                                                                                                                              |
| 4    | <b>Vibration (Random)</b>                       | Mate connectors and vibrate per EIA 364-28, test condition VII.                                                                                       | 10 milliohms MAXIMUM<br>(change from initial)<br>&<br>Discontinuity < 1 microsecond                                                                                                                                                               |
| 5    | <b>Shock (Mechanical)</b>                       | Mate connectors and shock at 50 g's with $\frac{1}{2}$ sine wave (11 milliseconds) shocks in the $\pm X$ , $\pm Y$ , $\pm Z$ axes, (18 shocks total). | 20 milliohms MAXIMUM<br>&<br>Discontinuity < 1 microsecond                                                                                                                                                                                        |
| 6    | <b>Wire Pullout Force (Axial)</b>               | Apply an axial pullout force on the wire at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch).                                                      | 16 Awg = 88.0 N (19.8 lbf) Min.<br>18 Awg = 88.0 N (19.8 lbf) Min.<br>20 Awg = 59.0 N (13.3 lbf) Min.<br>22 Awg = 39.0 N (8.78 lbf) Min.<br>24 Awg = 29.0 N (6.52 lbf) Min.<br>26 Awg = 19.0 N (4.27 lbf) Min.<br>28 Awg = 9.80 N (2.20 lbf) Min. |

|                    |                                             |                                                                        |                 |
|--------------------|---------------------------------------------|------------------------------------------------------------------------|-----------------|
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| DOCUMENT NUMBER:   | CREATED / REVISED BY:                       | CHECKED BY:                                                            | APPROVED BY:    |
| <b>PS-5556-001</b> | <b>BANDURA</b>                              | <b>BANDURA</b>                                                         | <b>MARGULIS</b> |



# PRODUCT SPECIFICATION

## 5.2 MECHANICAL REQUIREMENTS (continued)

|    |                                                |                                                                                                                                                          |                                                                                                                      |
|----|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 7  | <b>Terminal Insertion Force (into Housing)</b> | Apply an axial insertion force on the terminal at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch).                                                   | 15.0 N (3.37 lbf)<br>MAXIMUM insertion force                                                                         |
| 8  | <b>Normal Force</b>                            | Apply a perpendicular force.                                                                                                                             | 0.49 N (50 grams) MINIMUM<br>[Gold (noble) plating]<br>OR<br>1.47 N (150 grams) MINIMUM<br>[Tin (non-noble) plating] |
| 9  | <b>PCB Engagement and Separation Forces</b>    | Engage and separate a connector at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute. (Applies to parts with PCB retention features only)   | 49.0 N (11.0 lbf)<br>MAXIMUM insertion force<br>&<br>10.0 N (2.24 lbf)<br>MINIMUM withdrawal force                   |
| 10 | <b>Panel Insertion and Withdrawal Forces</b>   | Insert and withdraw a connector at a rate of $25 \pm 6$ mm ( $1 \pm \frac{1}{4}$ inch) per minute. (Applies to parts with panel retention features only) | 225 N (50.7 lbf)<br>MAXIMUM insertion force<br>&<br>157 N (35.3 lbf)<br>MINIMUM withdrawal force                     |
| 11 | <b>Pin Retention Force</b>                     | Apply axial push force at the speed rate of $25 \pm 3$ mm/minute.                                                                                        | 1.0 KGF MIN.                                                                                                         |
| 12 | <b>Thumblatch Operation Force</b>              | Depress latch at a speed rate of 25.4 mm/minute.                                                                                                         | 1.7 KGF MAX.                                                                                                         |
| 13 | <b>Thumblatch Yield Strength</b>               | Mate loaded connectors fully. Pull apart via wires at a speed rate of 25.4 mm/minute.                                                                    | 7.0 KGF MIN.                                                                                                         |

|                    |                                             |                                                                        |                 |
|--------------------|---------------------------------------------|------------------------------------------------------------------------|-----------------|
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| DOCUMENT NUMBER:   | CREATED / REVISED BY:                       | CHECKED BY:                                                            | APPROVED BY:    |
| <b>PS-5556-001</b> | <b>BANDURA</b>                              | <b>BANDURA</b>                                                         | <b>MARGULIS</b> |



# PRODUCT SPECIFICATION

## 5.3 ENVIRONMENTAL REQUIREMENTS (continued)

| ITEM | DESCRIPTION                                                                  | TEST CONDITION                                                                                                                                                | REQUIREMENT                                                                                                   |
|------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1    | <b>Thermal Shock</b>                                                         | Mate connectors: expose for 5 cycles<br>Between temperatures $-55$ and $105^{\circ}\text{C}$ ;<br>Dwell 0.5 hours at each temperature.                        | 20 milliohms MAXIMUM<br>Visual: No Damage<br>Dielectric Strength per 5.1.5<br>Insulation Resistance per 5.1.4 |
| 2    | <b>Thermal Aging</b>                                                         | Mate connectors; expose to:<br>96 hours at $105 \pm 2^{\circ}\text{C}$                                                                                        | 20 milliohms MAXIMUM<br>&<br>Visual: No Damage                                                                |
| 3    | <b>Humidity<br/>(Steady State)</b>                                           | Mate connectors: expose to a<br>temperature of $60 \pm 2^{\circ}\text{C}$ with a relative<br>humidity of 90-95% for 96 hours.                                 | 20 milliohms MAXIMUM<br>Dielectric Strength per 5.1.5<br>Insulation Resistance per 5.1.4<br>Visual: No Damage |
| 4    | <b>Solderability</b>                                                         | Per SMES-152                                                                                                                                                  | Solder coverage:<br>95% MINIMUM<br>(per SMES-152)                                                             |
| 5    | <b>Solder Resistance</b>                                                     | Dip connector terminals tail in solder:<br>Solder Duration: $5 \pm 0.5$ seconds;<br>Solder Temperature: $260 \pm 5^{\circ}\text{C}$                           | Visual:<br>No Damage to insulator<br>material                                                                 |
| 6    | <b>Cold Resistance</b>                                                       | Mate connectors:<br>Duration; 96 hours;<br>Temperature: $-40 \pm 3^{\circ}\text{C}$                                                                           | 20 milliohms MAXIMUM<br>Visual: No Damage                                                                     |
| 7    | <b>Corrosive<br/>Atmosphere: Sulfur<br/>Dioxide Gas<br/>(SO<sub>2</sub>)</b> | Mate connectors:<br>Duration; 24 hours exposure.<br>Atmosphere: 50 parts per million (ppm)<br>SO <sub>2</sub> Gas.<br>Temperature: $40 \pm 3^{\circ}\text{C}$ | 20 milliohms MAXIMUM<br>Visual: No Damage                                                                     |

## 6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

|                    |                                             |                                                                        |                 |
|--------------------|---------------------------------------------|------------------------------------------------------------------------|-----------------|
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| <b>PS-5556-001</b> | <b>BANDURA</b>                              | <b>BANDURA</b>                                                         | <b>MARGULIS</b> |



# PRODUCT SPECIFICATION

|                                                    |                                                                                                |                                                                                              |                                           |                                             |                                        |
|----------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------------|
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| <div>DOCUMENT NUMBER:</div> <div>PS-5556-001</div> |                                                                                                | <div>CREATED / REVISED BY:</div> <div>BANDURA</div>                                          | <div>CHECKED BY:</div> <div>BANDURA</div> | <div>APPROVED BY:</div> <div>MARGULIS</div> |                                        |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC   |                                                                                                |                                                                                              |                                           |                                             |                                        |





# PRODUCT SPECIFICATION

|                                        |                                                                                   |                                                                                  |                               |
|----------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------|
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| DOCUMENT NUMBER:<br><b>PS-5556-001</b> |                                                                                   | CREATED / REVISED BY:<br><b>BANDURA</b>                                          | CHECKED BY:<br><b>BANDURA</b> |
|                                        |                                                                                   | APPROVED BY:<br><b>MARGULIS</b>                                                  |                               |

NOTES:

1) HOUSING MATERIAL:

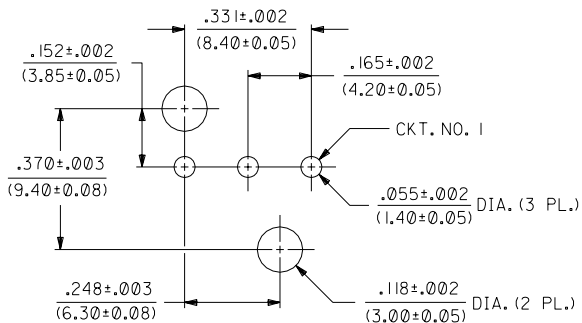
"BLANK" - NYLON 6/6, U.L. 94V-2,  
COLOR: NATURAL.  
210 - NYLON 6/6, U.L. 94V-0,  
COLOR: NATURAL.

2) TERMINAL MATERIAL: BRASS ALLOY 260

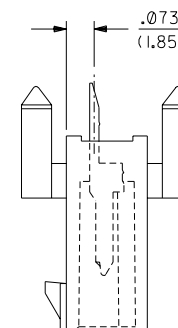
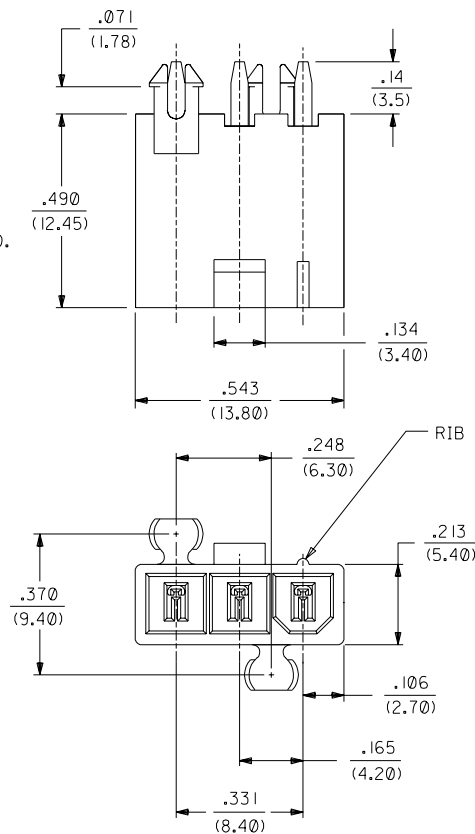
3) TERMINAL PLATING:

"BLANK" - .000035/(.00090) MIN. TIN OVER  
.000020/(.00050) MIN. COPPER.  
\*GS2 - .000015/(.00038) MIN. SELECT GOLD AND  
.000100/(.00254) MIN. SELECT MATTE TIN  
OVER .000050/(.00127) MIN. NICKEL OVERALL.  
\*GS - .000030/(.00076) MIN. SELECT GOLD AND  
.000100/(.00254) MIN. SELECT MATTE TIN  
OVER .000050/(.00127) MIN. NICKEL OVERALL.  
S - .000100/(.00254) MIN. 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.

- 4) PART IS DESIGNED IN METRIC.  
5) PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.  
6) ALL DIMENSIONS ARE REFERENCE, UNLESS OTHERWISE SPECIFIED.  
7) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS:  
SEE PS-5556-001



RECOMMENDED HOLE LAYOUT FOR  
.070/(1.78) MAX. THICK P.C. BOARD



LEGEND

5566-03\*3\*-\*\*\*  
BASE NO. \_\_\_\_\_  
CIRCUIT SIZE \_\_\_\_\_  
ASS'Y. TYPE \_\_\_\_\_  
A = WITHOUT DRAIN HOLES  
B = WITH DRAIN HOLES  
MOUNTING \_\_\_\_\_  
3 = PEGS  
PLATING \_\_\_\_\_  
(SEE NOTE 3)  
HOUSING MATERIAL \_\_\_\_\_  
(SEE NOTE 1)

| PART NO.   | ENG. NO.       | ASS'Y. TYPE | HOUSING MAT'L. (SEE NOTE 1) | PLATING (SEE NOTE 3) |
|------------|----------------|-------------|-----------------------------|----------------------|
| 39-30-1039 | 5566-03A3      | A           | "BLANK"                     | "BLANK"              |
| 39-30-2033 | -03A3GS2       | A           |                             | GS2                  |
| 39-30-2031 | -03A3GS        | A           |                             | GS                   |
| 39-30-5037 | -03A3S         | A           |                             | S                    |
| 39-30-2035 | -03B3          | B           |                             | "BLANK"              |
| 39-30-2039 | -03B3GS2       | B           |                             | GS2                  |
| 39-30-2037 | -03B3GS        | B           |                             | GS                   |
| 39-30-5039 | -03B3S         | B           | "BLANK"                     | S                    |
| 39-30-2030 | -03A3-210      | A           | 210                         | "BLANK"              |
| 39-30-2034 | -03A3GS2-210   | A           |                             | GS2                  |
| 39-30-2032 | -03A3GS-210    | A           |                             | GS                   |
| 39-30-5038 | -03A3S-210     | A           |                             | S                    |
| 39-30-2036 | -03B3-210      | B           |                             | "BLANK"              |
| 39-30-3030 | -03B3GS2-210   | B           |                             | GS2                  |
| 39-30-2038 | -03B3GS-210    | B           |                             | GS                   |
| 39-30-6030 | 5566-03B3S-210 | B           | 210                         | S                    |

| DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR ± 1/2°                                                                                                                          |                | MFG. SH. REV. LTR. REVISIONS |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------|-----------|----------------|-------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------|----|------|---------|--------|--------|
| <table border="1"> <tr> <th>INCH</th> <th>METRIC</th> </tr> <tr> <td>3 PLACE ± .010</td> <td>—</td> </tr> <tr> <td>2 PLACE ± .015</td> <td>± 0.25</td> </tr> <tr> <td>1 PLACE —</td> <td>± 0.38</td> </tr> </table> |                | INCH                         | METRIC    | 3 PLACE ± .010 | —     | 2 PLACE ± .015                                                                    | ± 0.25 | 1 PLACE —                                                                                                                                                                          | ± 0.38         | <table border="1"> <tr> <td>DATE</td> <td>6/ 7/90</td> </tr> <tr> <td>U.S.A.</td> <td>1 OF 1</td> </tr> </table>       |    | DATE | 6/ 7/90 | U.S.A. | 1 OF 1 |
| INCH                                                                                                                                                                                                                | METRIC         |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| 3 PLACE ± .010                                                                                                                                                                                                      | —              |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| 2 PLACE ± .015                                                                                                                                                                                                      | ± 0.25         |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| 1 PLACE —                                                                                                                                                                                                           | ± 0.38         |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| DATE                                                                                                                                                                                                                | 6/ 7/90        |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| U.S.A.                                                                                                                                                                                                              | 1 OF 1         |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| <table border="1"> <tr> <td>FILE NAME</td> <td>5566-03A1</td> </tr> <tr> <td>SCALE</td> <td>4 : 1</td> </tr> </table>                                                                                               |                | FILE NAME                    | 5566-03A1 | SCALE          | 4 : 1 | <table border="1"> <tr> <td>SEE CHART</td> <td>SDA-5566-03*3*</td> </tr> </table> |        | SEE CHART                                                                                                                                                                          | SDA-5566-03*3* |                                                                                                                        |    |      |         |        |        |
| FILE NAME                                                                                                                                                                                                           | 5566-03A1      |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| SCALE                                                                                                                                                                                                               | 4 : 1          |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| SEE CHART                                                                                                                                                                                                           | SDA-5566-03*3* |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| <table border="1"> <tr> <td>DRWG. BY</td> <td>GEP</td> </tr> <tr> <td>CHK'D. BY</td> <td>RJF</td> </tr> <tr> <td>APPROV. BY</td> <td>RAS</td> </tr> </table>                                                        |                | DRWG. BY                     | GEP       | CHK'D. BY      | RJF   | APPROV. BY                                                                        | RAS    | <table border="1"> <tr> <td>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.</td> <td>CP</td> </tr> </table> |                | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. | CP |      |         |        |        |
| DRWG. BY                                                                                                                                                                                                            | GEP            |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| CHK'D. BY                                                                                                                                                                                                           | RJF            |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| APPROV. BY                                                                                                                                                                                                          | RAS            |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.                                                                                              | CP             |                              |           |                |       |                                                                                   |        |                                                                                                                                                                                    |                |                                                                                                                        |    |      |         |        |        |

|    |                                                             |
|----|-------------------------------------------------------------|
| KI | REVISED RIB PICT.<br>ECN #UCP2005-0449<br>CSTEWART,08-26-04 |
| K  | REMOVED TIN-LEAD<br>ECN #UCP2004-1788<br>3/23/2004 MSC      |
| J  | REV. PS NOTE<br>UCP2003-0396<br>9/5/2002 SAMIEC             |
| H  | ADD .073 DIM.<br>ECN #U40780<br>94-06-23 A.GUZIK            |
| G  | REV. PROD. SPEC.<br>ECN U11610<br>GEP 8-1-91 RJF            |
| F  | ADDED PROD. SPEC.<br>ECN U00837<br>GEP 10-24-90 RJF         |
| E  | REDRAWN ON CAD<br>ECN U100422<br>GEP 6-7-90 RJF             |