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**Part Number:** [0022053031](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Solid Header, Right Angle, with Friction Lock, 3 Circuits, Tin (Sn) Plating

**Documents:**

|                               |                                                      |
|-------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-10-07 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a> |

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

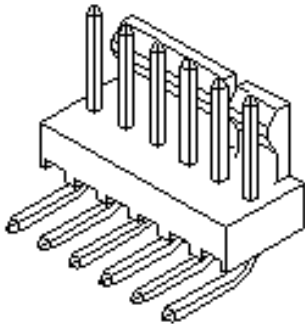
|                |                      |
|----------------|----------------------|
| Product Family | PCB Headers          |
| Series         | <a href="#">7478</a> |
| Application    | Wire-to-Board        |
| Product Name   | KK®                  |

**Physical**

|                                |                 |
|--------------------------------|-----------------|
| Breakaway                      | No              |
| Circuits (Loaded)              | 3               |
| Circuits (maximum)             | 3               |
| Color - Resin                  | Natural (White) |
| Durability (mating cycles max) | 25              |
| Flammability                   | 94V-0           |
| Glow-Wire Compliant            | No              |
| Lock to Mating Part            | Yes             |
| Material - Metal               | Brass           |
| Material - Plating Mating      | Tin             |
| Material - Plating Termination | Tin             |
| Material - Resin               | Nylon           |
| Number of Rows                 | 1               |
| Orientation                    | Right Angle     |
| PC Tail Length (in)            | 0.141 In        |
| PC Tail Length (mm)            | 3.58 mm         |
| PCB Locator                    | No              |
| PCB Retention                  | None            |
| PCB Thickness Recommended (in) | 0.062 In        |
| PCB Thickness Recommended (mm) | 1.60 mm         |
| Packaging Type                 | Bag             |
| Pitch - Mating Interface (in)  | 0.100 In        |
| Pitch - Mating Interface (mm)  | 2.54 mm         |
| Plating min: Mating (µin)      | 200             |
| Plating min: Mating (µm)       | 5               |
| Plating min: Termination (µin) | 200             |
| Plating min: Termination (µm)  | 5               |
| Polarized to Mating Part       | Yes             |
| Polarized to PCB               | Yes             |
| Shrouded                       | Partial         |
| Stackable                      | Yes             |
| Temperature Range - Operating  | 0°C to +75°C    |
| Termination Interface: Style   | Through Hole    |

**Electrical**

|                               |    |
|-------------------------------|----|
| Current - Maximum per Contact | 4A |
|-------------------------------|----|



*Series  
image - Reference only*

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free  
Status**

**China RoHS**



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environmental compliance?**

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For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

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non-product compliance questions.

**Search Parts in this Series**

[7478Series](#)

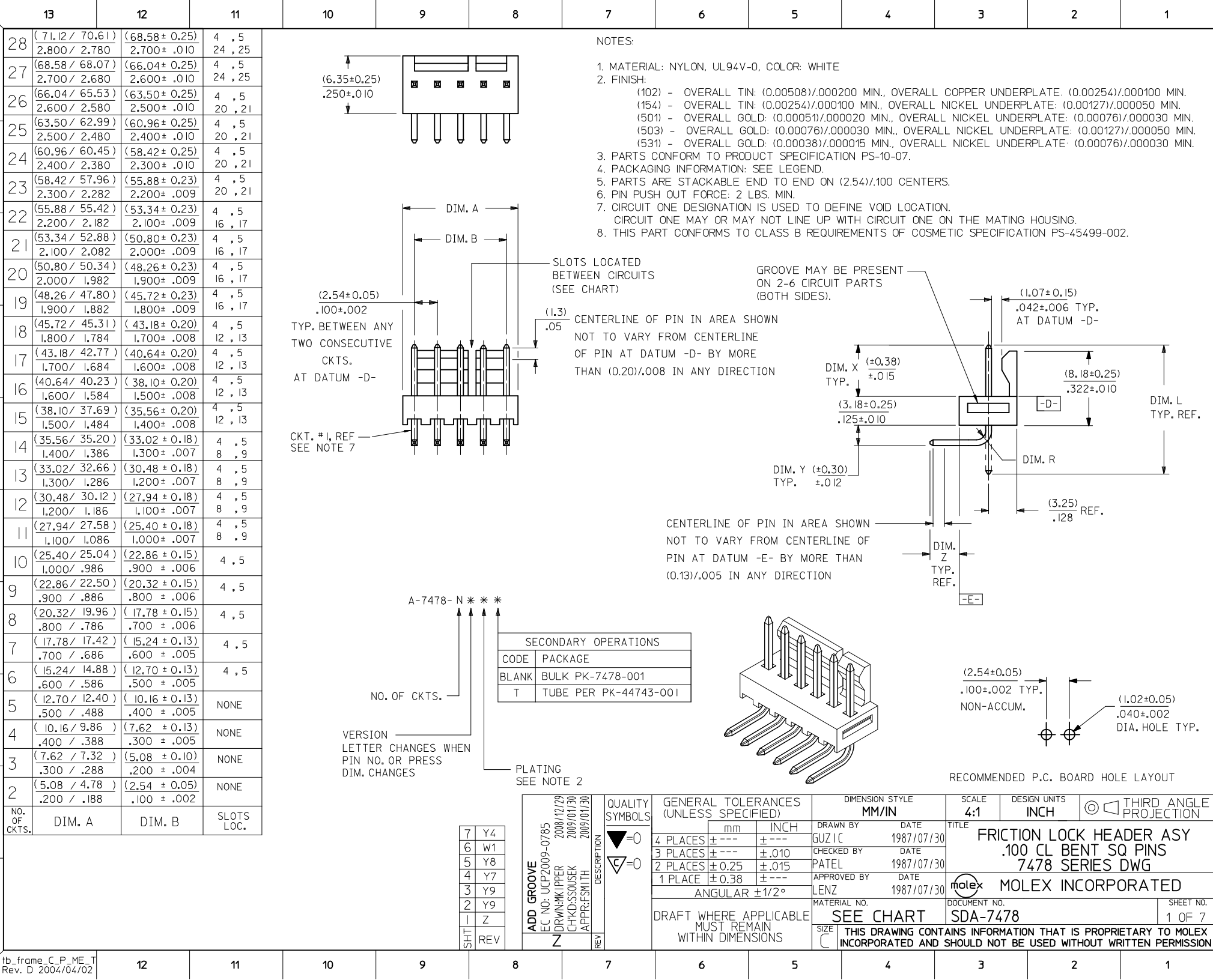
**Mates With**

[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

|                                                |                        |
|------------------------------------------------|------------------------|
| Voltage - Maximum                              | 250V                   |
| <b>Solder Process Data</b>                     |                        |
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 235                    |
| <b>Material Info</b>                           |                        |
| Old Part Number                                | A-7478-03A102          |
| <b>Reference - Drawing Numbers</b>             |                        |
| Product Specification                          | PS-10-07               |
| Sales Drawing                                  | SDA-7478               |

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| J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PART NO.                                              | ENG. NO.                      | PART NO.                                                                                                                      | ENG. NO.      | PART NO.                 | ENG. NO.            | PART NO.                                                                      | ENG. NO.                 | PART NO.               | ENG. NO.            | PART NO. | ENG. NO. | J |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
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| I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22-05-3051                                            | A-7478-5A102                  | 22-12-2054                                                                                                                    | A-7478-5A501  | 50-29-1712               | A-7478-5A501T       |                                                                               |                          |                        |                     |          |          | I |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
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| H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22-05-3101                                            | A-7478-10A102                 | 22-12-2104                                                                                                                    | A-7478-10A501 | 50-29-1717               | A-7478-10A501T      |                                                                               |                          |                        |                     |          |          | H |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
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| G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22-05-3161                                            | A-7478-16A102                 | 22-12-2164                                                                                                                    | A-7478-16A501 | 50-29-1723               | A-7478-16A501T      |                                                                               |                          |                        |                     |          |          | G |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
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| F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22-05-3211                                            | A-7478-21A102                 | 22-12-2214                                                                                                                    | A-7478-21A501 | 50-29-1728               | A-7478-21A501T      |                                                                               |                          |                        |                     |          |          | F |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
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| E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 22-05-3271                                            | A-7478-27A102                 | 22-12-2274                                                                                                                    | A-7478-27A501 | 50-29-1734               | A-7478-27A501T      |                                                                               |                          |                        |                     |          |          | E |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
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| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                               |                                                                                                                               |               |                          |                     |                                                                               |                          |                        |                     |          |          | D |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                               |                                                                                                                               |               |                          |                     |                                                                               |                          |                        |                     |          |          | C |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                               |                                                                                                                               |               |                          |                     |                                                                               |                          |                        |                     |          |          | B |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                               |                                                                                                                               |               |                          |                     |                                                                               |                          |                        |                     |          |          | A |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| <table><tr><td rowspan="5">ADD P/N'S<br/>EC NO: UCP2006-1815<br/>DRAWN:ADERR<br/>CHKD:AEHAG<br/>APPR:FSM TH<br/>Y9</td><td rowspan="5">DESCRIPTION<br/>2006/02/06<br/>2006/02/06<br/>2006/02/09</td><td rowspan="5">QUALITY SYMBOLS<br/>▽=0<br/>▽=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE<br/>IN/MM</td><td>SCALE<br/>---</td><td>DESIGN UNITS<br/>INCH</td><td colspan="2" rowspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td>mm</td><td>INCH</td><td>DRAWN BY<br/>GUZIK</td><td>DATE<br/>1987/07/10</td><td colspan="2">TITLE<br/>FRICTION LOCK HEADER ASY<br/>.100 CL BENT SQ PINS<br/>7478 SERIES DWG.</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td><td>CHECKED BY<br/>PATEL</td><td>DATE<br/>1987/07/10</td><td colspan="2">MOLEX INCORPORATED</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± ---</td><td>APPROVED BY<br/>LENZ</td><td>DATE<br/>1987/07/10</td><td colspan="2" rowspan="3">MATERIAL NO.<br/>SDA-7478</td><td>SHEET NO.<br/>3 OF 7</td></tr><tr><td>2 PLACES</td><td>± ---</td><td>± ---</td><td colspan="5">SEE CHART</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td><td colspan="5">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td colspan="3"></td><td colspan="2">ANGULAR ± ---°</td><td colspan="7"></td></tr><tr><td colspan="3"></td><td colspan="2">DRAFT WHERE APPLICABLE<br/>MUST REMAIN<br/>WITHIN DIMENSIONS</td><td colspan="7"></td></tr></table> |                                                       |                               |                                                                                                                               |               |                          |                     |                                                                               |                          |                        |                     |          |          |   | ADD P/N'S<br>EC NO: UCP2006-1815<br>DRAWN:ADERR<br>CHKD:AEHAG<br>APPR:FSM TH<br>Y9 | DESCRIPTION<br>2006/02/06<br>2006/02/06<br>2006/02/09 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |   | DIMENSION STYLE<br>IN/MM |   | SCALE<br>--- | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION |   | mm | INCH | DRAWN BY<br>GUZIK | DATE<br>1987/07/10 | TITLE<br>FRICTION LOCK HEADER ASY<br>.100 CL BENT SQ PINS<br>7478 SERIES DWG. |  | 4 PLACES | ± --- | ± --- | CHECKED BY<br>PATEL | DATE<br>1987/07/10 | MOLEX INCORPORATED |  | 3 PLACES | ± --- | ± --- | APPROVED BY<br>LENZ | DATE<br>1987/07/10 | MATERIAL NO.<br>SDA-7478 |  | SHEET NO.<br>3 OF 7 | 2 PLACES | ± --- | ± --- | SEE CHART |  |  |  |  | 1 PLACE | ± --- | ± --- | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |  |  |  |  |  | ANGULAR ± ---° |  |  |  |  |  |  |  |  |  |  |  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |  |  |  |  |  |  |  |  |
| ADD P/N'S<br>EC NO: UCP2006-1815<br>DRAWN:ADERR<br>CHKD:AEHAG<br>APPR:FSM TH<br>Y9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DESCRIPTION<br>2006/02/06<br>2006/02/06<br>2006/02/09 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                         |               | DIMENSION STYLE<br>IN/MM |                     | SCALE<br>---                                                                  | DESIGN UNITS<br>INCH     | THIRD ANGLE PROJECTION |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                               | mm                                                                                                                            | INCH          | DRAWN BY<br>GUZIK        | DATE<br>1987/07/10  | TITLE<br>FRICTION LOCK HEADER ASY<br>.100 CL BENT SQ PINS<br>7478 SERIES DWG. |                          |                        |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                               | 4 PLACES                                                                                                                      | ± ---         | ± ---                    | CHECKED BY<br>PATEL | DATE<br>1987/07/10                                                            | MOLEX INCORPORATED       |                        |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                               | 3 PLACES                                                                                                                      | ± ---         | ± ---                    | APPROVED BY<br>LENZ | DATE<br>1987/07/10                                                            | MATERIAL NO.<br>SDA-7478 |                        | SHEET NO.<br>3 OF 7 |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                               | 2 PLACES                                                                                                                      | ± ---         | ± ---                    | SEE CHART           |                                                                               |                          |                        |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| 1 PLACE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ± ---                                                 | ± ---                         | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |               |                          |                     |                                                                               |                          |                        |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                               | ANGULAR ± ---°                                                                                                                |               |                          |                     |                                                                               |                          |                        |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                       |                               | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                    |               |                          |                     |                                                                               |                          |                        |                     |          |          |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| <table><tr><td>ib_frame_C_P_ME_T<br/>Rev. D 2004/04/02</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                       |                               |                                                                                                                               |               |                          |                     |                                                                               |                          |                        |                     |          |          |   | ib_frame_C_P_ME_T<br>Rev. D 2004/04/02                                             | 12                                                    | 11                            | 10                                    | 9 | 8                        | 7 | 6            | 5                    | 4                      | 3 | 2  | 1    |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |
| ib_frame_C_P_ME_T<br>Rev. D 2004/04/02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12                                                    | 11                            | 10                                                                                                                            | 9             | 8                        | 7                   | 6                                                                             | 5                        | 4                      | 3                   | 2        | 1        |   |                                                                                    |                                                       |                               |                                       |   |                          |   |              |                      |                        |   |    |      |                   |                    |                                                                               |  |          |       |       |                     |                    |                    |  |          |       |       |                     |                    |                          |  |                     |          |       |       |           |  |  |  |  |         |       |       |                                                                                                                               |  |  |  |  |  |  |  |                |  |  |  |  |  |  |  |  |  |  |  |                                                            |  |  |  |  |  |  |  |  |



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