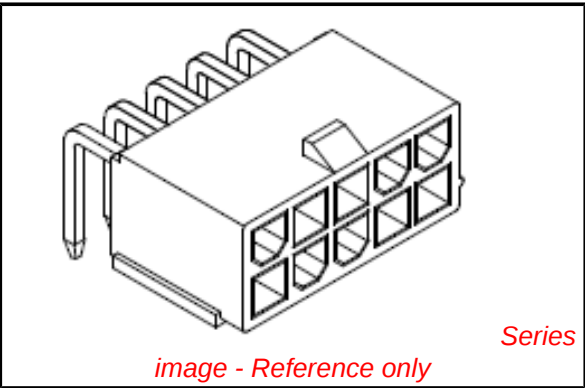


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**Part Number:** [0874270203](#)  
**Status:** **Active**  
**Overview:** [minifit\\_jr](#)  
**Description:** 4.20mm (.165") Mini-Fit Jr.™ Header, Right Angle, High Temperature, without Flange, 2 Circuits, Tin (Sn) over Copper (Cu) Plating, Glow Wire Compatible

|                               |                                                           |
|-------------------------------|-----------------------------------------------------------|
| <b>Documents:</b>             |                                                           |
| <a href="#">3D Model</a>      | <a href="#">Product Specification PS-87427-0001 (PDF)</a> |
| <a href="#">Drawing (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>      |

|                                |                                                                                                                                                                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Agency Certification</b>    |                                                                                                                                                                                                                                                                 |
| CSA                            | LR19980                                                                                                                                                                                                                                                         |
| UL                             | E29179                                                                                                                                                                                                                                                          |
| <b>General</b>                 |                                                                                                                                                                                                                                                                 |
| Product Family                 | PCB Headers                                                                                                                                                                                                                                                     |
| Series                         | <a href="#">87427</a>                                                                                                                                                                                                                                           |
| Application                    | Wire-to-Board                                                                                                                                                                                                                                                   |
| Comments                       | Current = 13A max. per circuit when header is mated to a receptacle loaded with <a href="#">45750</a> Mini-Fit Plus HCS™ Crimp Terminal Crimped to to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information. |
| Overview                       | <a href="#">minifit_jr</a>                                                                                                                                                                                                                                      |
| Product Name                   | Mini-Fit Jr.™                                                                                                                                                                                                                                                   |
| <b>Physical</b>                |                                                                                                                                                                                                                                                                 |
| Breakaway                      | No                                                                                                                                                                                                                                                              |
| Circuits (Loaded)              | 2                                                                                                                                                                                                                                                               |
| Color - Resin                  | Beige                                                                                                                                                                                                                                                           |
| Durability (mating cycles max) | 30                                                                                                                                                                                                                                                              |
| First Mate / Last Break        | No                                                                                                                                                                                                                                                              |
| Flammability                   | 94V-0                                                                                                                                                                                                                                                           |
| Glow-Wire Compliant            | Yes                                                                                                                                                                                                                                                             |
| Lock to Mating Part            | Yes                                                                                                                                                                                                                                                             |
| Material - Metal               | Brass                                                                                                                                                                                                                                                           |
| Material - Plating Mating      | Tin                                                                                                                                                                                                                                                             |
| Material - Plating Termination | Tin                                                                                                                                                                                                                                                             |
| Material - Resin               | Nylon                                                                                                                                                                                                                                                           |
| Number of Rows                 | 2                                                                                                                                                                                                                                                               |
| Orientation                    | Right Angle                                                                                                                                                                                                                                                     |
| PC Tail Length (in)            | 0.130 In                                                                                                                                                                                                                                                        |
| PC Tail Length (mm)            | 3.30 mm                                                                                                                                                                                                                                                         |
| PCB Locator                    | No                                                                                                                                                                                                                                                              |
| PCB Retention                  | None                                                                                                                                                                                                                                                            |
| PCB Thickness Recommended (in) | 0.062 In                                                                                                                                                                                                                                                        |
| PCB Thickness Recommended (mm) | 1.60 mm                                                                                                                                                                                                                                                         |
| Packaging Type                 | Tray                                                                                                                                                                                                                                                            |
| Pitch - Mating Interface (in)  | 0.165 In                                                                                                                                                                                                                                                        |
| Pitch - Mating Interface (mm)  | 4.20 mm                                                                                                                                                                                                                                                         |
| Pitch - Term. Interface (in)   | 0.165 In                                                                                                                                                                                                                                                        |
| Pitch - Term. Interface (mm)   | 4.20 mm                                                                                                                                                                                                                                                         |
| Plating min: Mating (µin)      | 203.2                                                                                                                                                                                                                                                           |
| Plating min: Mating (µm)       | 5.08                                                                                                                                                                                                                                                            |
| Plating min: Termination (µin) | 203.2                                                                                                                                                                                                                                                           |
| Plating min: Termination (µm)  | 5.08                                                                                                                                                                                                                                                            |



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Not Halogen-Free**

**China RoHS**

**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
[87427Series](#)

**Mates With**  
[5557](#) Mini-Fit Jr.™ Receptacle Housing

|                                |                 |
|--------------------------------|-----------------|
| Polarized to Mating Part       | Yes             |
| Polarized to PCB               | No              |
| Shrouded                       | Fully           |
| Stackable                      | No              |
| Surface Mount Compatible (SMC) | No              |
| Temperature Range - Operating  | -40°C to +105°C |
| Termination Interface: Style   | Through Hole    |

**Electrical**

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

**Solder Process Data**

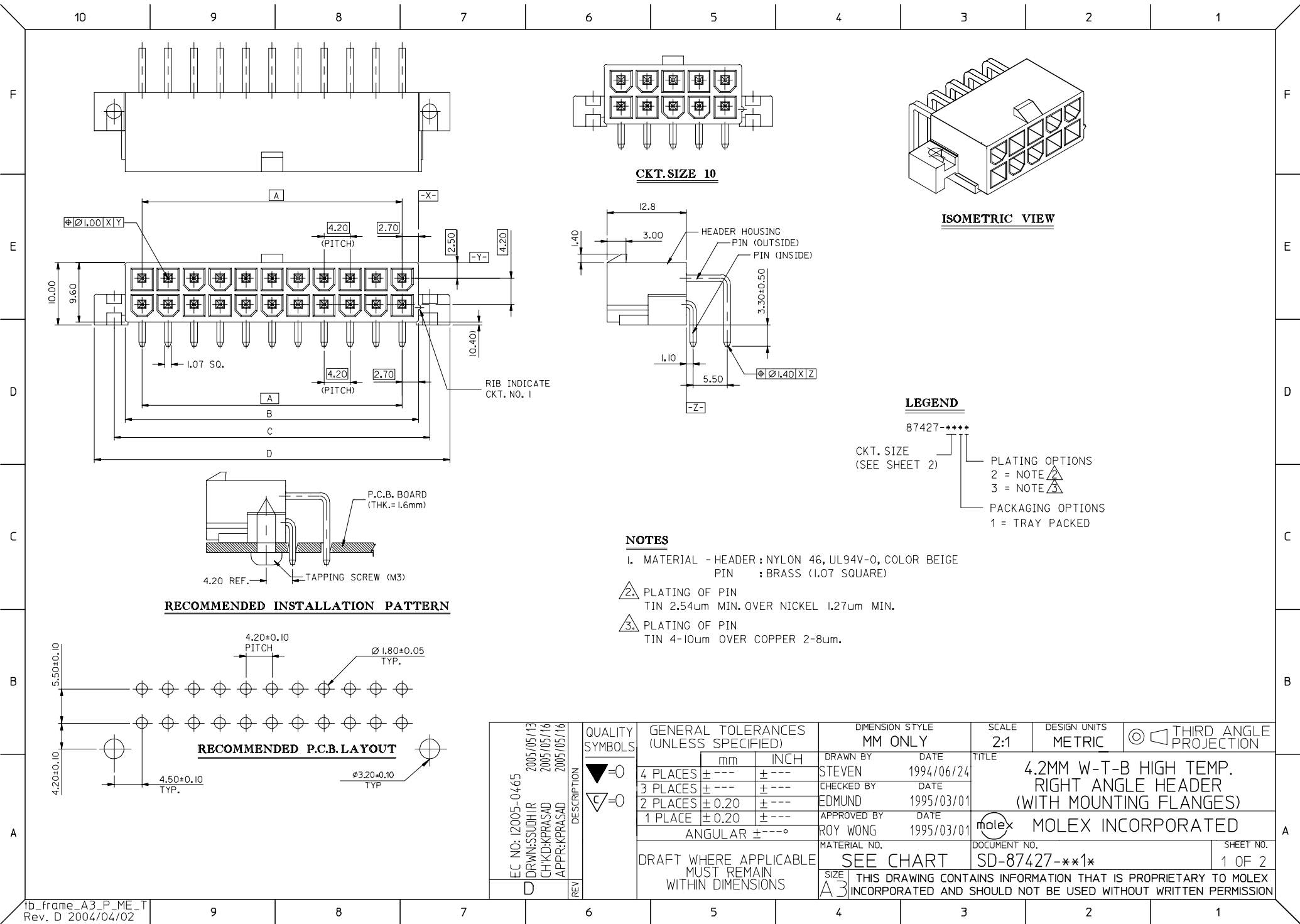
|                                                |                              |
|------------------------------------------------|------------------------------|
| Duration at Max. Process Temperature (seconds) | 30                           |
| Lead-free Process Capability                   | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 2                            |
| Process Temperature max. C                     | 240                          |

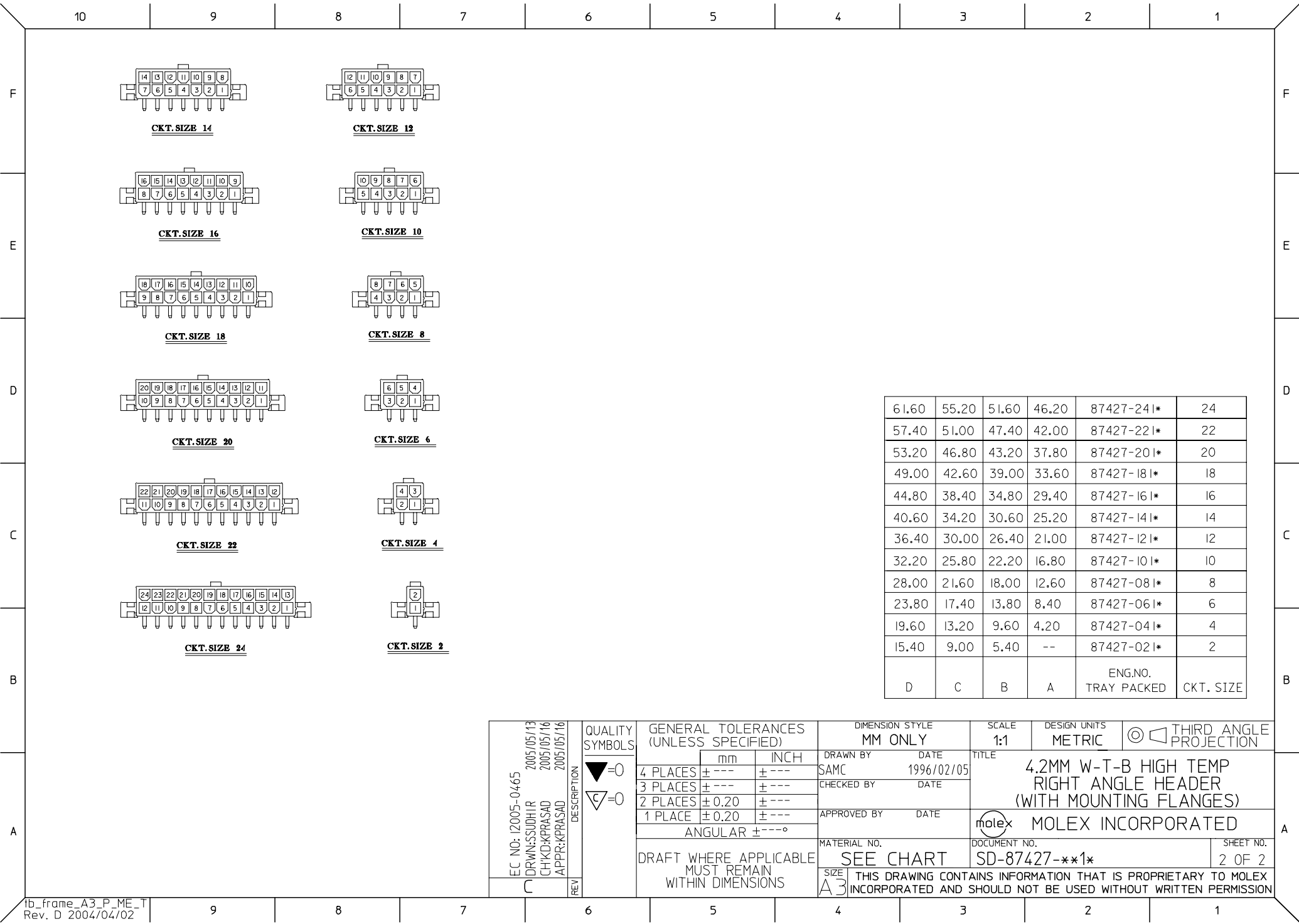
**Material Info**

**Reference - Drawing Numbers**

|                         |               |
|-------------------------|---------------|
| Packaging Specification | PK-87427-001  |
| Product Specification   | PS-87427-0001 |
| Sales Drawing           | SD-87427-**0* |

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|       |       |       |       |                        |           |
|-------|-------|-------|-------|------------------------|-----------|
| 61.60 | 55.20 | 51.60 | 46.20 | 87427-24 *             | 24        |
| 57.40 | 51.00 | 47.40 | 42.00 | 87427-22 *             | 22        |
| 53.20 | 46.80 | 43.20 | 37.80 | 87427-20 *             | 20        |
| 49.00 | 42.60 | 39.00 | 33.60 | 87427-18 *             | 18        |
| 44.80 | 38.40 | 34.80 | 29.40 | 87427-16 *             | 16        |
| 40.60 | 34.20 | 30.60 | 25.20 | 87427-14 *             | 14        |
| 36.40 | 30.00 | 26.40 | 21.00 | 87427-12 *             | 12        |
| 32.20 | 25.80 | 22.20 | 16.80 | 87427-10 *             | 10        |
| 28.00 | 21.60 | 18.00 | 12.60 | 87427-08 *             | 8         |
| 23.80 | 17.40 | 13.80 | 8.40  | 87427-06 *             | 6         |
| 19.60 | 13.20 | 9.60  | 4.20  | 87427-04 *             | 4         |
| 15.40 | 9.00  | 5.40  | --    | 87427-02 *             | 2         |
| D     | C     | B     | A     | ENG.NO.<br>TRAY PACKED | CKT. SIZE |

|                                                                            |                                   |             |                                                            |        |                                                                                                                                  |                          |                    |                                                                                 |                        |           |  |  |
|----------------------------------------------------------------------------|-----------------------------------|-------------|------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|---------------------------------------------------------------------------------|------------------------|-----------|--|--|
| EC NO: I2005-0465<br>DRWN:SSUDHIR<br>CHKD:KPRASAD<br>APPR:KPRASAD<br>REV C | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | DESCRIPTION | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY                                                                                                       |                          | SCALE<br>1:1       | DESIGN UNITS<br>METRIC                                                          | THIRD ANGLE PROJECTION |           |  |  |
|                                                                            |                                   |             |                                                            | mm     | INCH                                                                                                                             | DRAWN BY<br>SAMC         | DATE<br>1996/02/05 | TITLE<br>4.2MM W-T-B HIGH TEMP<br>RIGHT ANGLE HEADER<br>(WITH MOUNTING FLANGES) |                        |           |  |  |
|                                                                            |                                   |             | 4 PLACES                                                   | ± ---  | ± ---                                                                                                                            | CHECKED BY               | DATE               |                                                                                 |                        |           |  |  |
|                                                                            |                                   |             | 3 PLACES                                                   | ± ---  | ± ---                                                                                                                            | APPROVED BY              | DATE               |                                                                                 |                        |           |  |  |
|                                                                            |                                   |             | 2 PLACES                                                   | ± 0.20 | ± ---                                                                                                                            | MOLEX MOLEX INCORPORATED |                    |                                                                                 |                        |           |  |  |
|                                                                            |                                   |             | 1 PLACE                                                    | ± 0.20 | ± ---                                                                                                                            |                          |                    |                                                                                 |                        |           |  |  |
|                                                                            |                                   |             | ANGULAR ± ---°                                             |        |                                                                                                                                  | MATERIAL NO.             |                    | DOCUMENT NO.                                                                    |                        | SHEET NO. |  |  |
|                                                                            |                                   |             | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                                                                                                                                  | SEE CHART                |                    | SD-87427-**1*                                                                   |                        | 2 OF 2    |  |  |
|                                                                            |                                   |             | SIZE<br>A3                                                 |        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                          |                    |                                                                                 |                        |           |  |  |