

**MODEL:** PJ-072C-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- shielded
- low profile
- surface mount

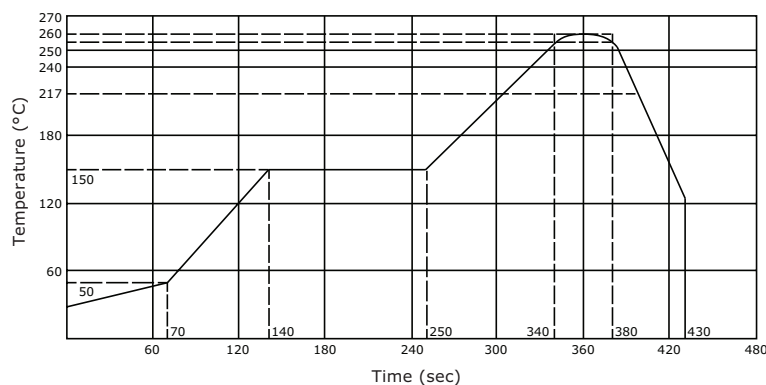
**SPECIFICATIONS**

| parameter                  | conditions/description                                                   | min | typ   | max      | units    |
|----------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage        |                                                                          |     | 24    |          | Vdc      |
| rated input current        |                                                                          |     |       | 2.0      | A        |
| contact resistance         | between terminal and mating plug<br>between terminal in a closed circuit |     |       | 50<br>30 | mΩ<br>mΩ |
| insulation resistance      | at 500 Vdc                                                               | 100 |       |          | MΩ       |
| voltage withstand          | for 1 minute                                                             |     |       | 500      | Vac      |
| insertion/withdrawal force |                                                                          | 0.3 |       | 3        | kg       |
| operating temperature      |                                                                          | -25 |       | 85       | °C       |
| life                       |                                                                          |     | 5,000 |          | cycles   |
| flammability rating        | UL94V-0                                                                  |     |       |          |          |
| RoHS                       | yes                                                                      |     |       |          |          |

**SOLDERABILITY**

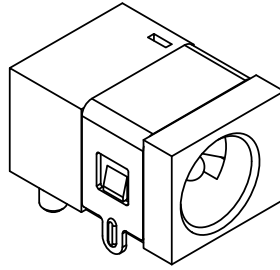
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%                                                                                |     |     | 40  | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile                                                                                       | 255 | 260 | 265 | °C    |
| drying conditions <sup>2</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours |     |     |     |       |

Note: 1. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >72 hours.

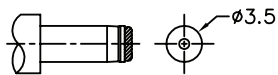
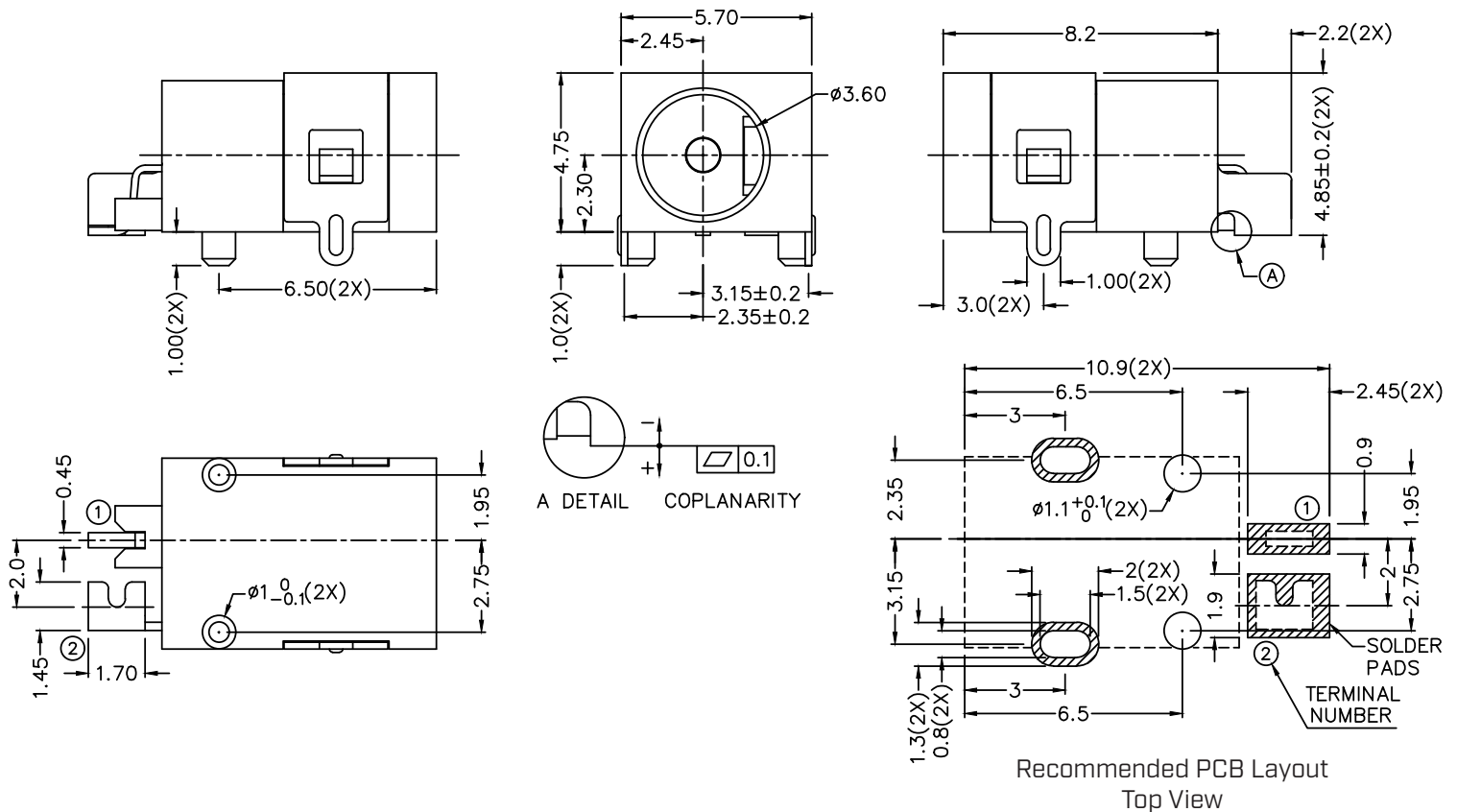


# MECHANICAL DRAWING

units: mm  
tolerance:  
X.X  $\pm 0.20$  mm  
X.XX  $\pm 0.10$  mm  
X.XXX  $\pm 0.050$  mm  
PCB:  $\pm 0.05$  mm  
unless otherwise specified



| DESCRIPTION | MATERIAL        | PLATING/COLOR                                                              |
|-------------|-----------------|----------------------------------------------------------------------------|
| terminal 1  | copper alloy    | contact area: gold<br>flash over nickel<br>solder area: tin over<br>nickel |
| terminal 2  | copper alloy    | gold flash over<br>nickel                                                  |
| shield      | brass           | nickel                                                                     |
| housing     | PA10T (UL94V-0) | black                                                                      |



MATING PLUG  
Jack Insertion Depth: 6.0mm

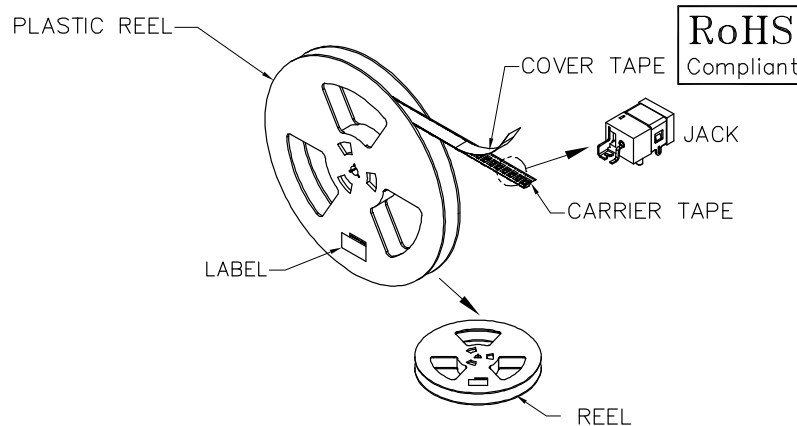
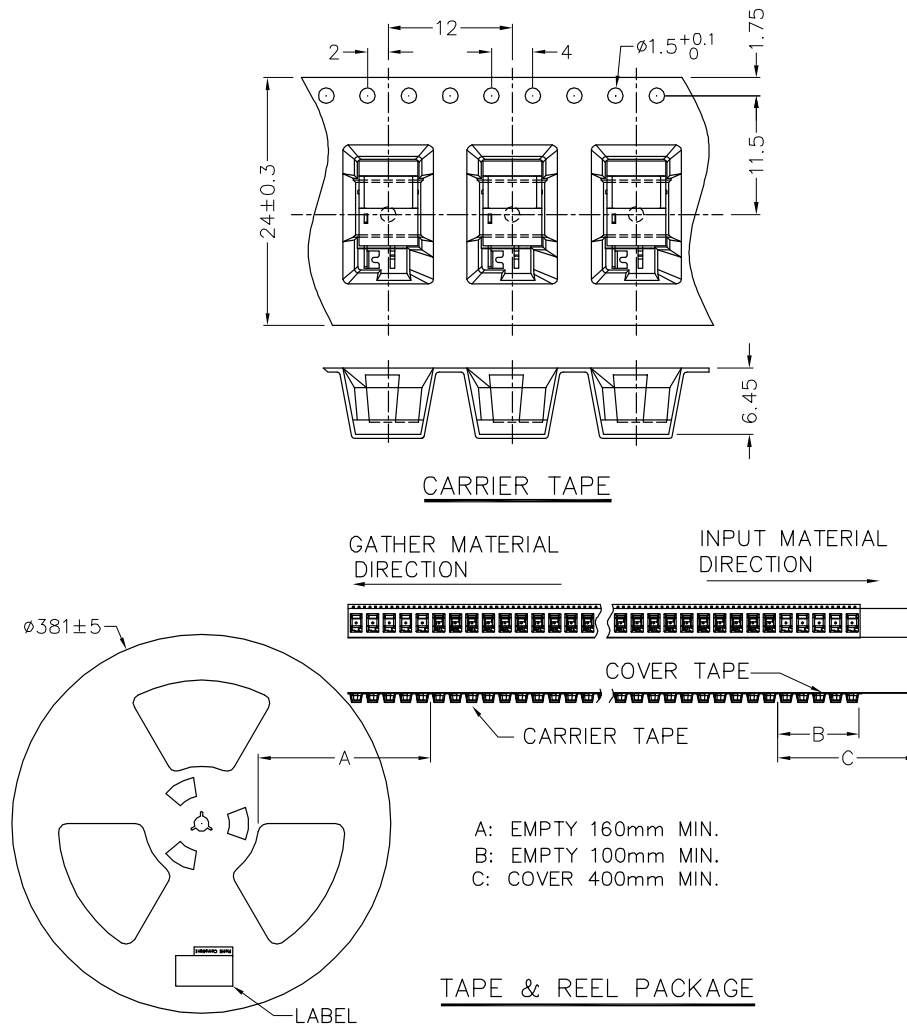
|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| SCHEMATIC  |  |
| Model      | PJ-072C-SMT-TR                                                                      |
| Center Pin | Ø1.0 mm                                                                             |

## PACKAGING

units: mm

Reel Size:  $\varnothing 381$  mm

Reel QTY: 1,200 pcs per reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 06/25/2012 |
| 1.01 | added TR package option                                                                       | 11/28/2012 |
| 1.02 | increased voltage rating                                                                      | 05/16/2016 |
| 1.03 | added storage and drying conditions, and tape and reel packaging details                      | 08/18/2017 |
| 1.04 | brand update                                                                                  | 10/22/2019 |
| 1.05 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.06 | product reengineered for improved manufacturability and production yield, see PCN for details | 06/29/2023 |
| 1.07 | product reengineered for improved manufacturability and production yield, see PCN for details | 08/14/2024 |
| 1.08 | CUI Devices rebranded to Same Sky                                                             | 09/12/2024 |

The revision history provided is for informational purposes only and is believed to be accurate.



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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