

**MODEL:** SJ-3502-SMT-TR | **DESCRIPTION:** AUDIO JACK**FEATURES**

- mid mount for low profile applications
- shielded
- no internal switches

**SPECIFICATIONS**

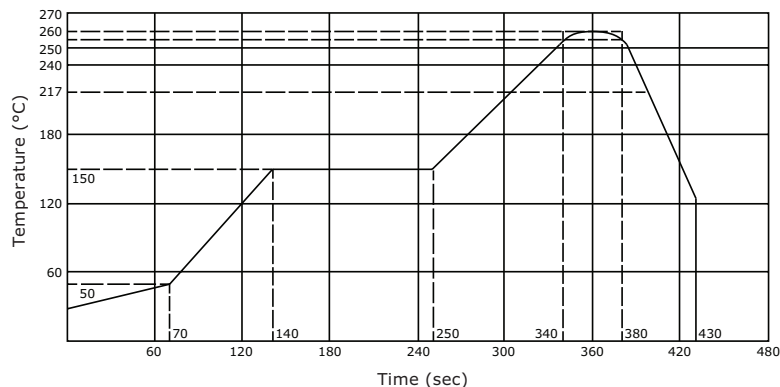
| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage             |                                                                          |     | 12    |          | Vdc      |
| rated input current             |                                                                          |     |       | 1        | A        |
| contact resistance <sup>1</sup> | 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                            | at a rate of 500±50 cycles/hour                                          |     | 5,000 |          | cycles   |
| flammability rating             | UL94V-0                                                                  |     |       |          |          |
| RoHS                            | yes                                                                      |     |       |          |          |

Note: 1. When measured at a current of less than 100 mA/1 kHz

**SOLDERABILITY**

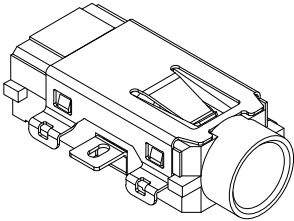
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%                                                                                |     |     | 40  | °C    |
| reflow soldering <sup>2</sup>  | see reflow profile                                                                                       | 255 | 260 | 265 | °C    |
| drying conditions <sup>3</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: 2. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
3. When exceeding floor life by >72 hours.

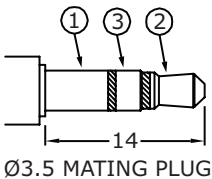
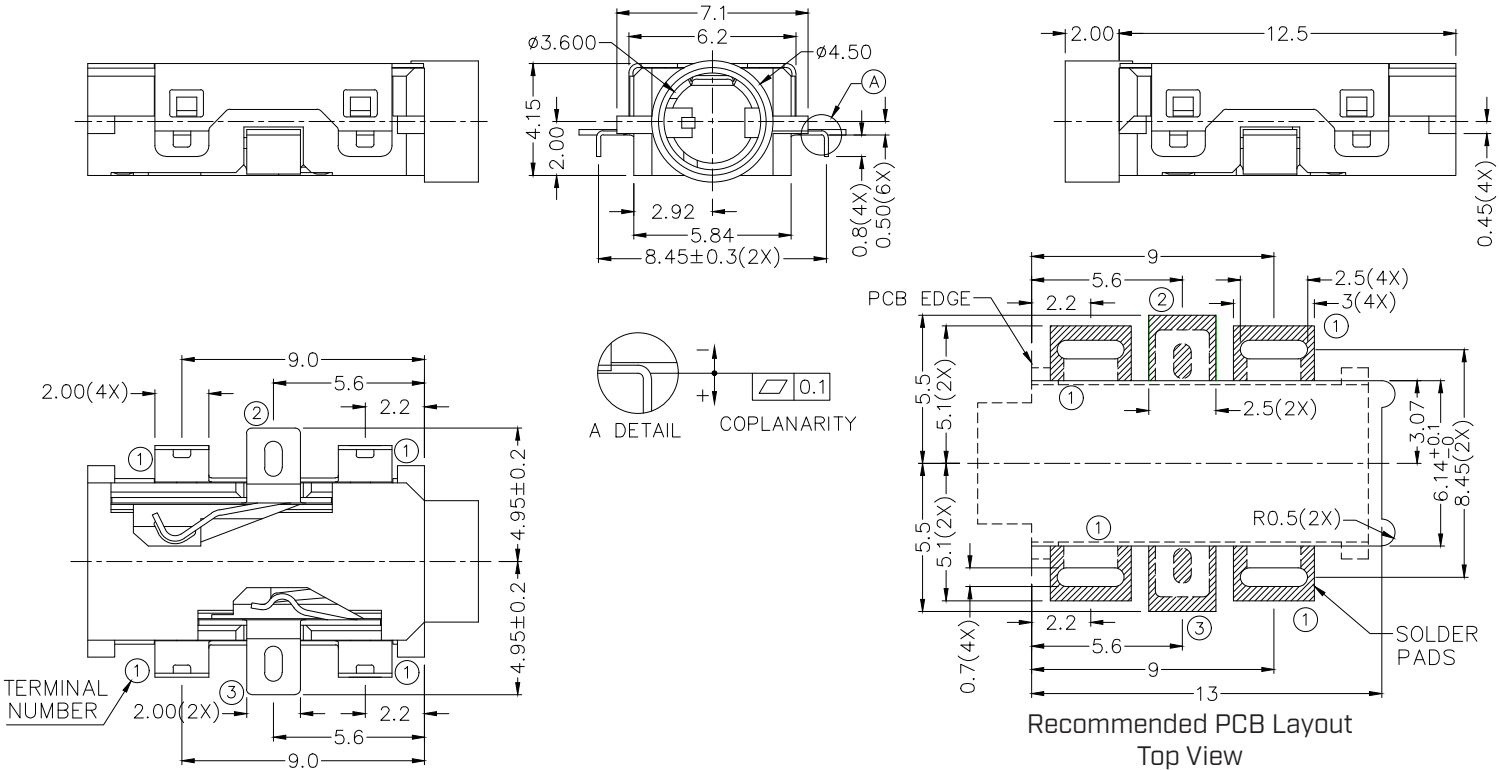


MECHANICAL DRAWING

units: mm  
tolerance:  
X.X ±0.20 mm  
X.XX ±0.10 mm  
X.XXX ±0.05 mm  
PCB: ±0.05 mm  
unless otherwise specified



| DESCRIPTION | MATERIAL        | PLATING/COLOR      |
|-------------|-----------------|--------------------|
| terminal 1  | stainless steel | silver over nickel |
| terminal 2  | copper alloy    | silver over nickel |
| terminal 3  | copper alloy    | silver over nickel |
| housing     | PA10T (UL94V-0) | black              |



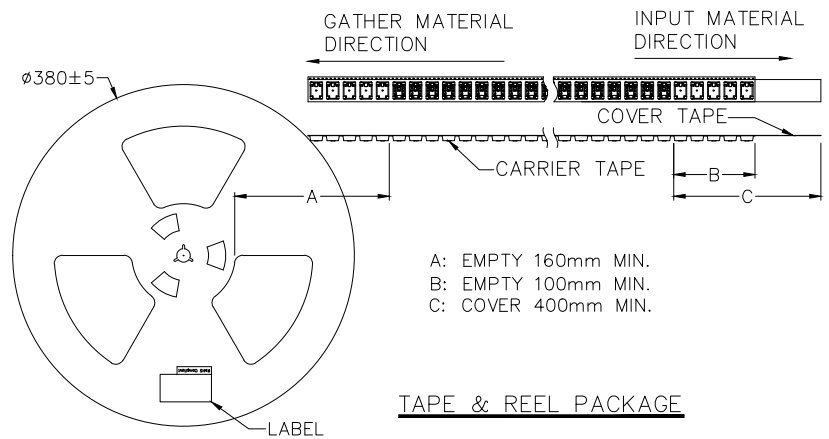
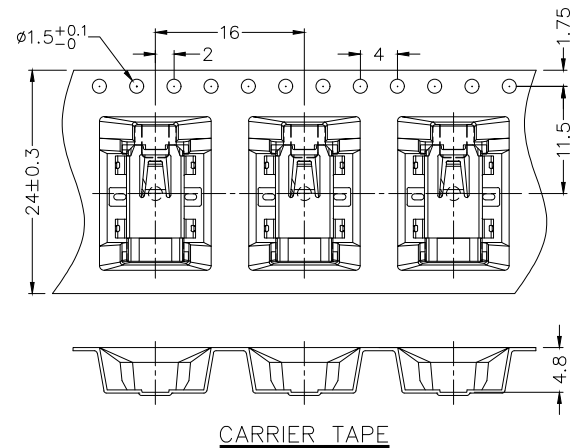
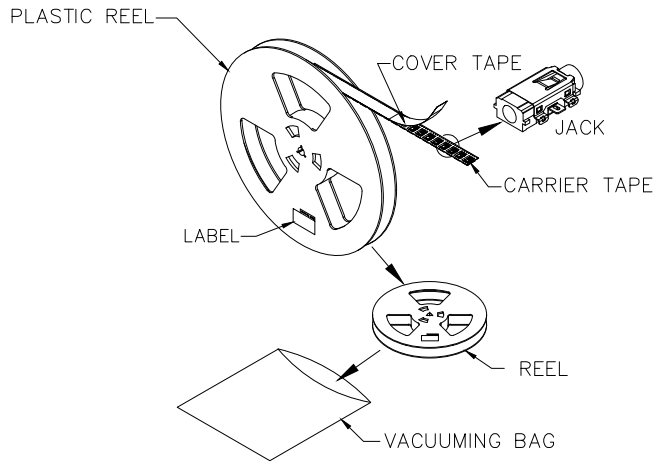
|           |                |
|-----------|----------------|
| Model No. | SJ-3502-SMT-TR |
| Schematic |                |
| PIN       |                |
| 1         | sleeve         |
| 2         | tip            |
| 3         | ring           |

## PACKAGING

units: mm

Reel Size:  $\varnothing 380$  mm

Reel QTY: 1,200 pcs per reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 06/28/2011 |
| 1.01 | added TR package option, updated spec.                                                        | 11/28/2012 |
| 1.02 | added storage and drying conditions, and tape and reel packaging details                      | 02/16/2018 |
| 1.03 | added detail to PCB layout recommendation                                                     | 08/06/2019 |
| 1.04 | brand update                                                                                  | 10/08/2019 |
| 1.05 | product reengineered for improved manufacturability and production yield, see PCN for details | 07/10/2023 |
| 1.06 | product reengineered for improved manufacturability and production yield, see PCN for details | 06/18/2024 |
| 1.07 | 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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

[sameskydevices.com](https://www.sameskydevices.com)