

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

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

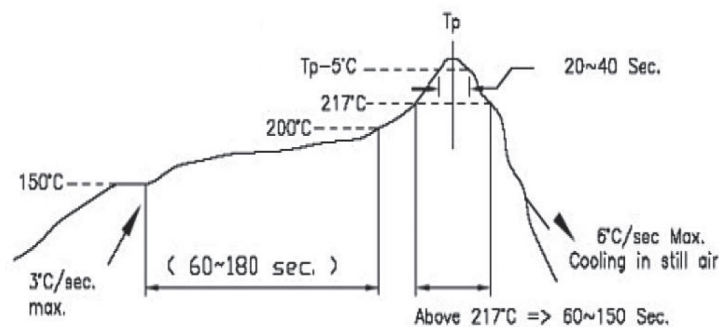
**SPECIFICATIONS**

| parameter                  | conditions/description                                                   | min | typ   | max      | units    |
|----------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage        |                                                                          |     | 12    |          | Vdc      |
| rated input current        |                                                                          |     |       | 1        | A        |
| contact resistance         | 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 24 cycles/minute                                            |     | 5,000 |          | cycles   |
| flammability rating        | UL94V-0                                                                  |     |       |          |          |
| RoHS                       | yes                                                                      |     |       |          |          |

**SOLDERABILITY**

| parameter                      | conditions/description                                                                         | min | typ | max | units |
|--------------------------------|------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | 10~30°C, <70% humidity                                                                         |     |     |     | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile                                                                             | 255 | 260 |     | °C    |
| drying conditions <sup>2</sup> | parts in reel: bake at 110°C for 4 hours<br>parts removed from reel: bake at 110°C for 4 hours |     |     |     |       |

Note: 1. CUI Devices recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >240 hours.

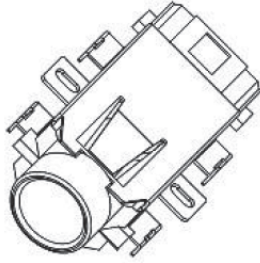


\* Time 25°C to Peak Temp. ---- 8 Minutes Max.

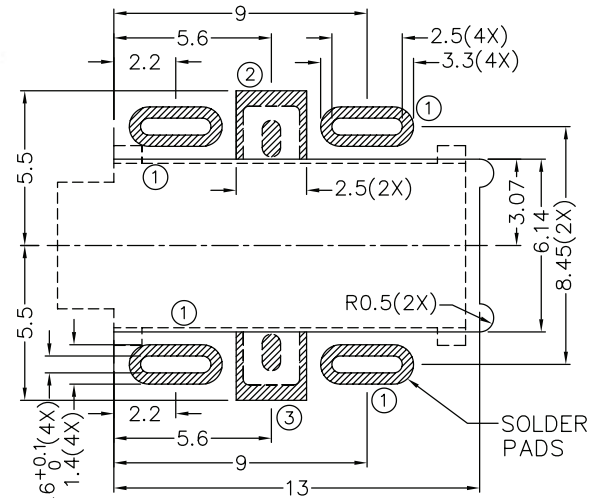
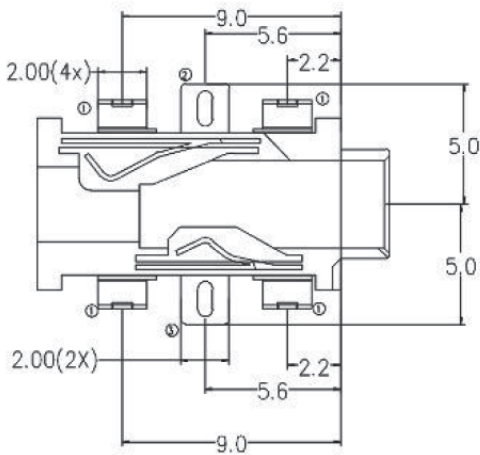
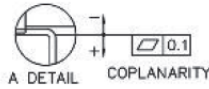
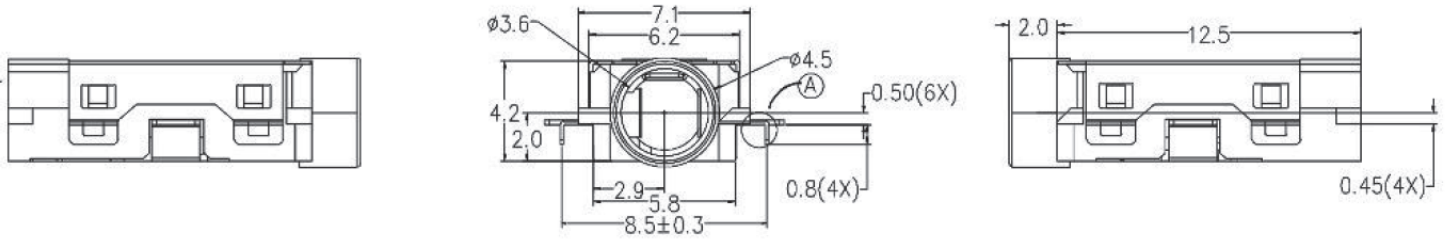
\* Time within 5°C of Actual Peak Temp. -- 20~40 Seconds

## MECHANICAL DRAWING

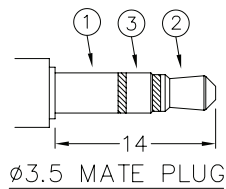
units: mm  
 tolerance:  
 X.X ±0.2 mm  
 X.XX ±0.10 mm  
 X.XXX ±0.050 mm  
 PCB: ±0.05 mm  
 unless otherwise specified



| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| terminal 1  | stainless steel | silver        |
| terminal 2  | copper alloy    | silver        |
| terminal 3  | copper alloy    | silver        |
| housing     | PA6T [UL94V-0]  | black         |



Recommended PCB Layout  
Top View

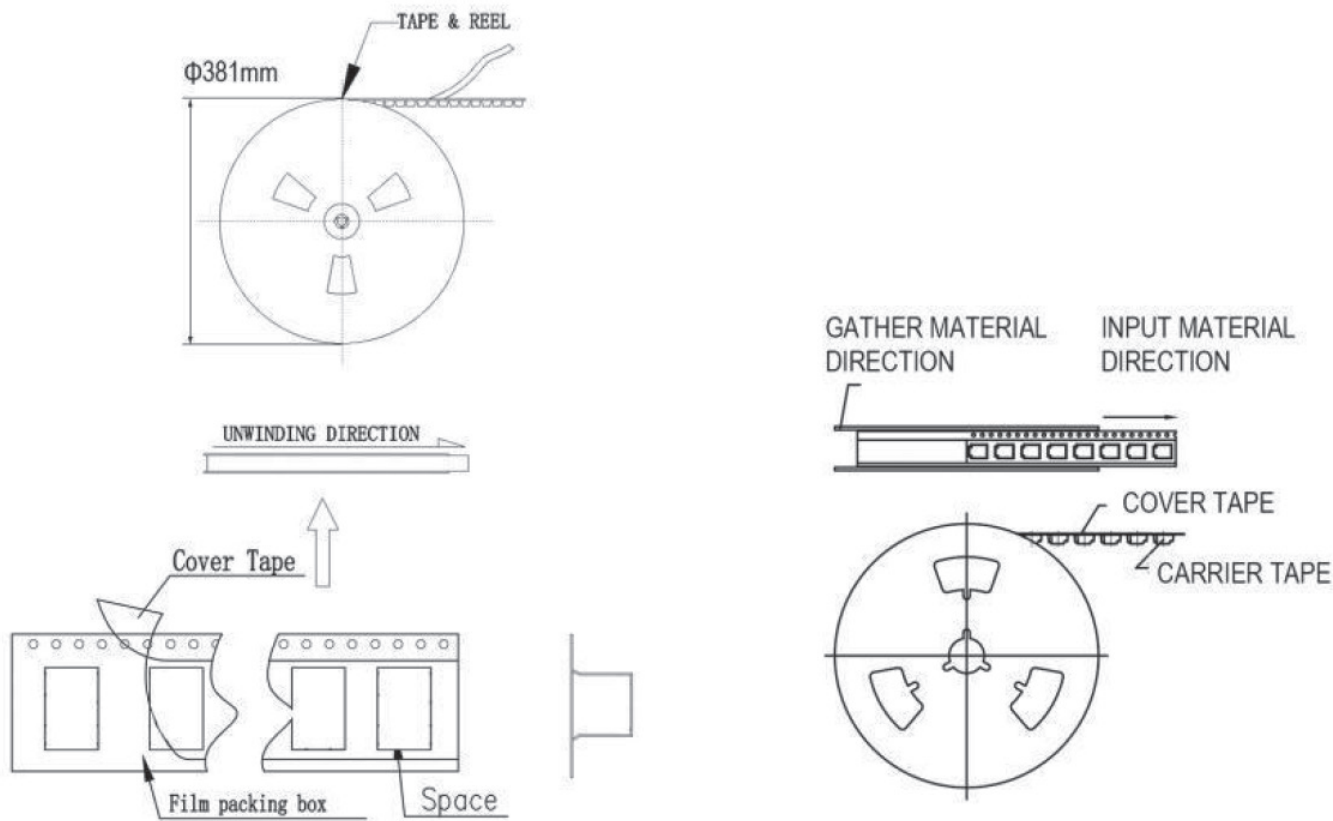


|           |                |
|-----------|----------------|
| Model No. | SJ-3502-SMT-TR |
| Schematic |                |
| PIN       |                |
| 1         | sleeve         |
| 2         | tip            |
| 3         | ring           |

## PACKAGING

units: mm

Reel Size:  $\varnothing 381$  mm  
 Reel QTY: 1,200 pcs per reel



## REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 06/28/2011 |
| 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 |

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



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

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