

MODEL: SJ-3506-SMT-TR | **DESCRIPTION:** MID MOUNT AUDIO JACK**FEATURES**

- mid mount for low profile applications
- shielded
- two switch configuration, one normally open, one isolated and normally closed

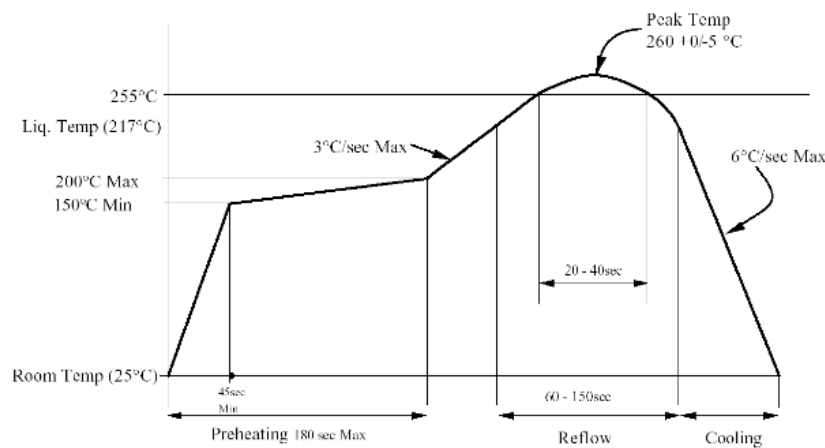
**SPECIFICATIONS**

| parameter | conditions/description | min | typ | max | units |
|----------------------------|--|-----|-------|-----------|----------|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance | between terminal and mating plug between terminal in a closed circuit | | | 100 50 | mΩ 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 | for 1 minute | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

SOLDERABILITY

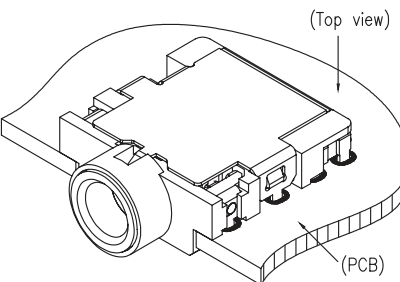
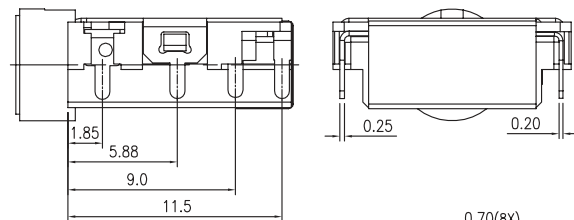
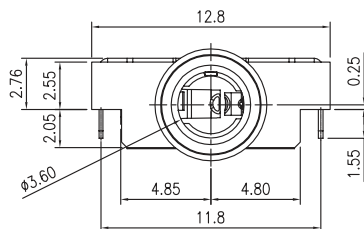
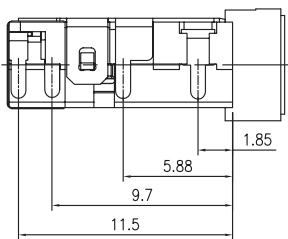
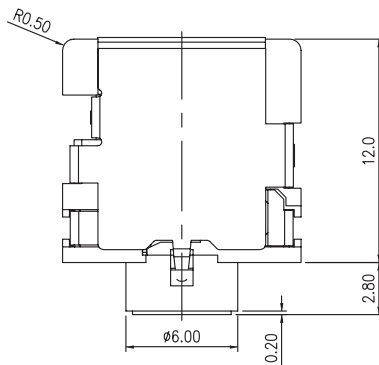
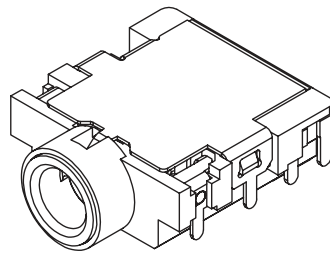
| parameter | conditions/description | min | typ | max | units |
|------------------|-------------------------|-----|-----|-----|-------|
| reel storage | 5~25°C, 20~75% humidity | | | | |
| reflow soldering | see reflow profile | 255 | 260 | | °C |

Note: 1. CUI Devices recommends usage of the product within 24 hours after T&R is opened. After 24 hours, CUI Devices recommends drying the parts prior to use.

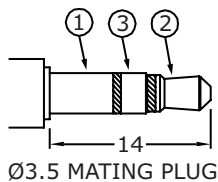


MECHANICAL DRAWING

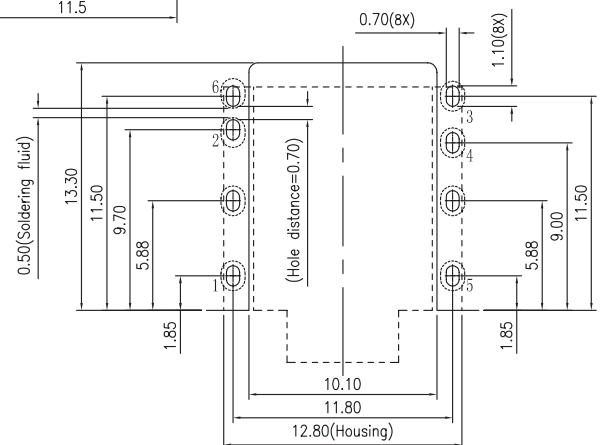
units: mm
 tolerance:
 X.X ±0.3 mm
 X.XX ±0.25 mm
 X.XXX ±0.20 mm
 PCB: ±0.05 mm
 unless otherwise specified



| DESCRIPTION | MATERIAL | PLATING/COLOR |
|-------------|----------------------------|--------------------|
| terminal 1 | phosphor bronze t=0.20 | silver over nickel |
| terminal 2 | beryllium bronze t=0.20 | silver over nickel |
| terminal 3 | beryllium bronze t=0.20 | silver over nickel |
| terminal 4 | phosphor bronze t=0.25 | silver over nickel |
| terminal 5 | phosphor bronze t=0.20 | silver over nickel |
| terminal 6 | brass t=0.20 | silver over nickel |
| shield | phosphor bronze t=0.20 | nickel |
| bushing | copper alloy | nickel |
| housing | PA10T (UL94V-0) | black |
| mylar | teflon t=0.05 | |



| Model No. | SJ-3506-SMT-TR |
|-----------|----------------------------|
| Schematic | |
| PIN | |
| 1 | sleeve |
| 2 | tip |
| 3 | ring |
| 4 | isolated ring |
| 5 | isolated ring switch (N-D) |
| 6 | tip switch |



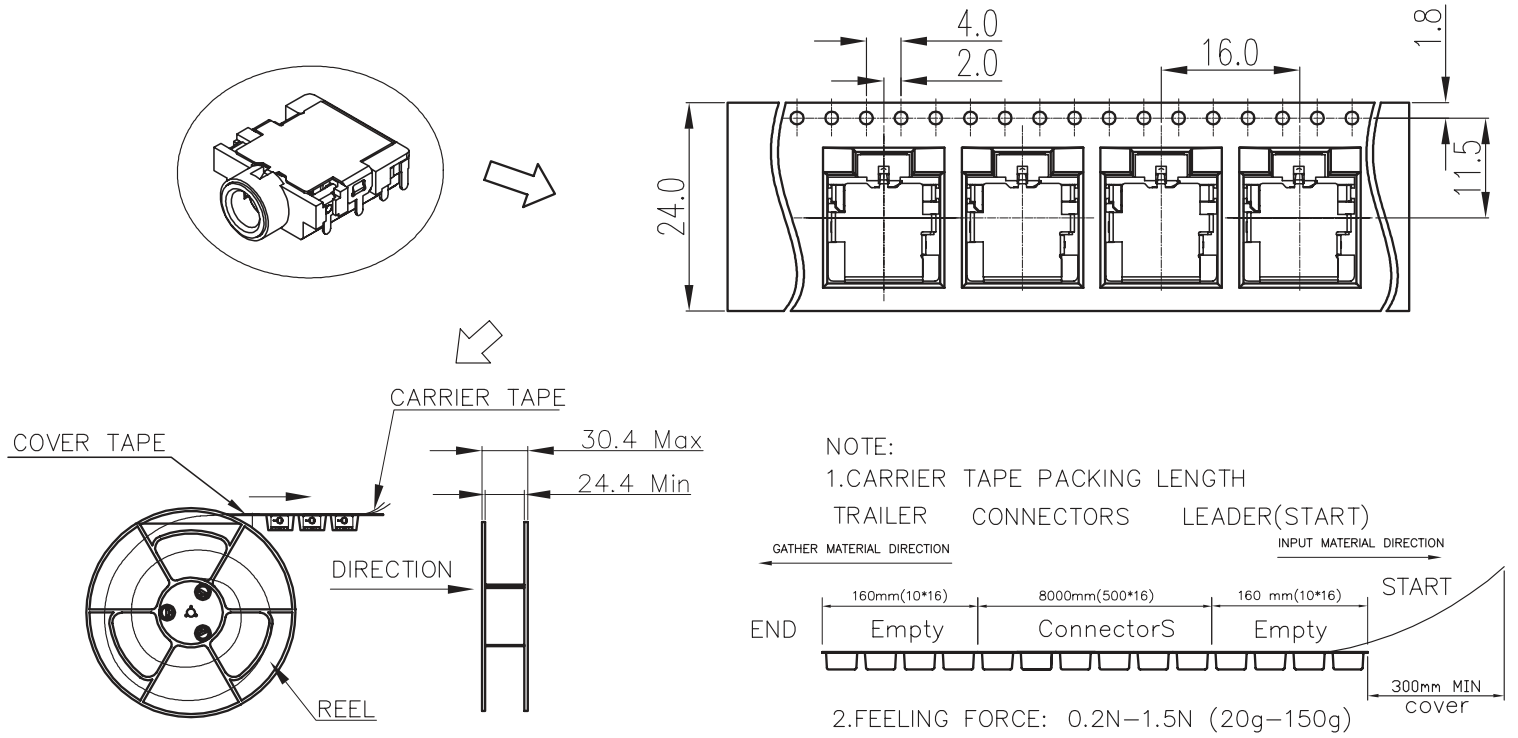
Recommended PCB Layout
Top View

PACKAGING

units: mm

Reel Size: \varnothing 330 mm

Reel QTY: 500 pcs per reel



REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 06/28/2011 |
| 1.01 | added TR package option, updated schematic | 11/28/2012 |
| 1.02 | added storage and drying conditions, and tape and reel packaging details | 02/23/2018 |
| 1.03 | brand update | 10/08/2019 |
| 1.04 | product reengineered for improved manufacturability and production yield, see PCN for details | 04/03/2023 |

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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