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# MODEL: SJ-3542AS-SMT-TR-67 | DESCRIPTION: AUDIO JACK

## FEATURES

- IP67 waterproof
- low profile
- surface mount
- reflow solder compatible
- mounting tab
- shielded

## SPECIFICATIONS

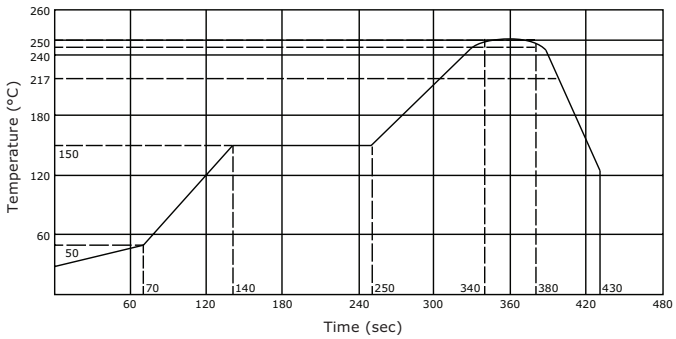
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance[1] | between terminal and mating plug<br>between terminal in a closed circuit | | | 50<br>30 | mΩ<br>mΩ |
| insulation 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 | | | | |
| IP level | IP67 | | | | |

Note: 1. When measured at a current of less than 100 mA/1 kHz
2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## SOLDERABILITY

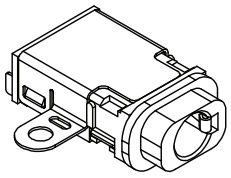
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering[3] | see reflow profile | 245 | 250 | 255 | °C |
| drying conditions[4] | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours | | | | |

Note: 3. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
4. When exceeding floor life by >72 hours.

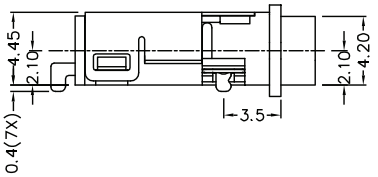


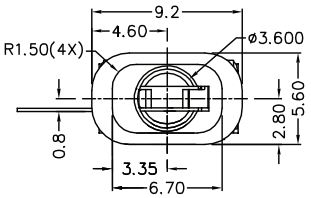
## MECHANICAL DRAWING

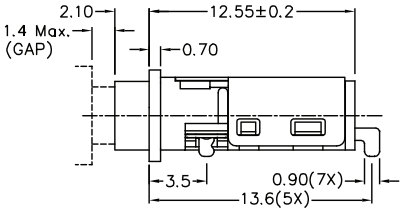
units: mm
tolerance:
X.X ±0.2 mm
X.XX ±0.10 mm
X.XXX ±0.050 mm
PCB: ±0.05 mm

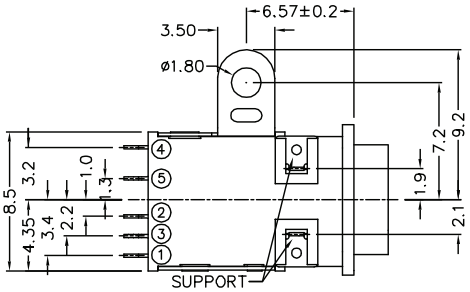


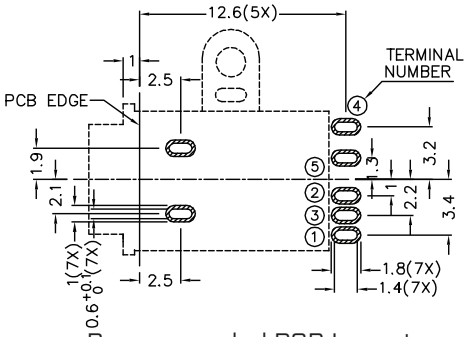
| | MATERIAL | PLATING |
|---|---|---|
| terminal 1 | copper alloy | gold flash |
| terminal 2 | copper alloy | gold flash |
| terminal 3 | copper alloy | gold flash |
| terminal 4 | copper alloy | gold flash |
| terminal 5 | copper alloy | gold flash |
| shield | stainless steel | |
| support | brass | silver |
| insulator | PA10T | |
| o-ring (OR-10) | silicone | |



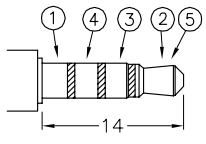



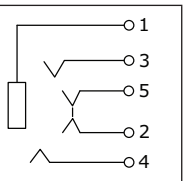




Recommended PCB Layout
Top View

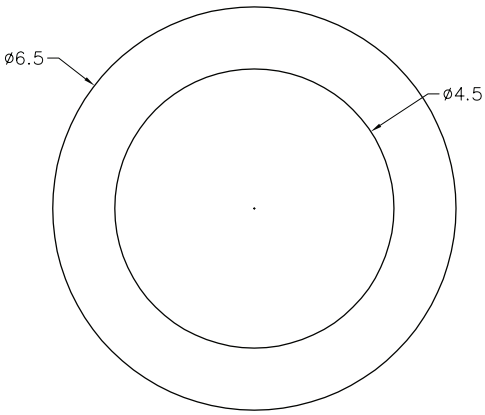


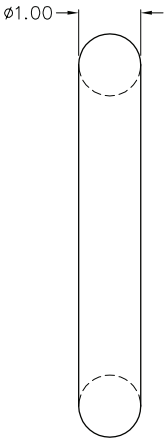

Ø3.5 MATING PLUG

| Schematic |  |
|---|---|
| PIN | |
| 1 | sleeve |
| 2 | tip |
| 3 | ring 1 |
| 4 | ring 2 |
| 5 | tip |

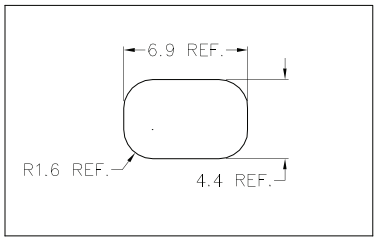


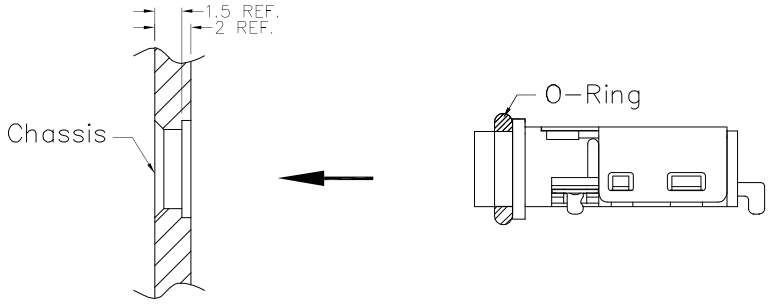
### O-ring (P/N: OR-10)

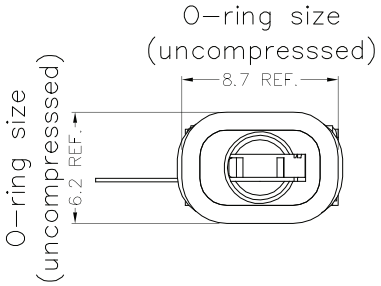


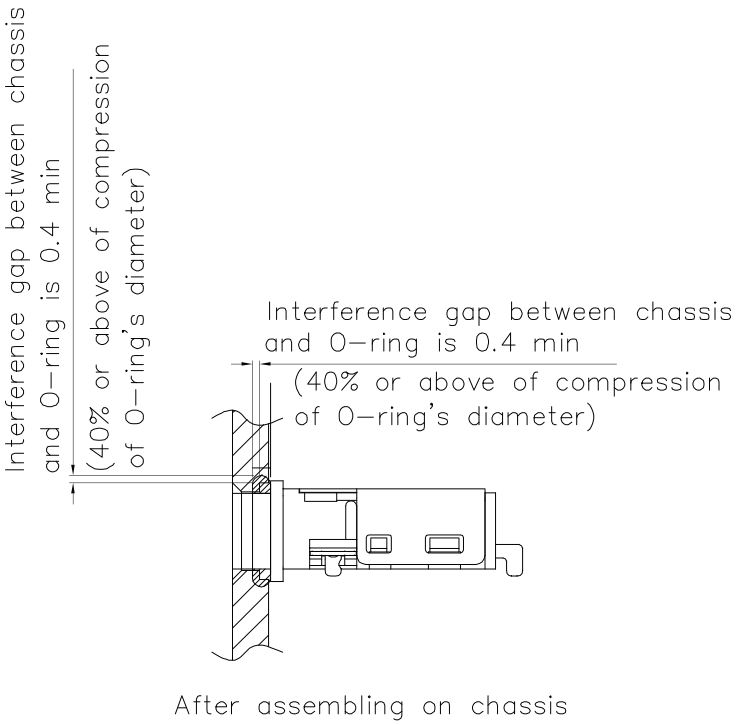



## ASSEMBLY REFERENCE



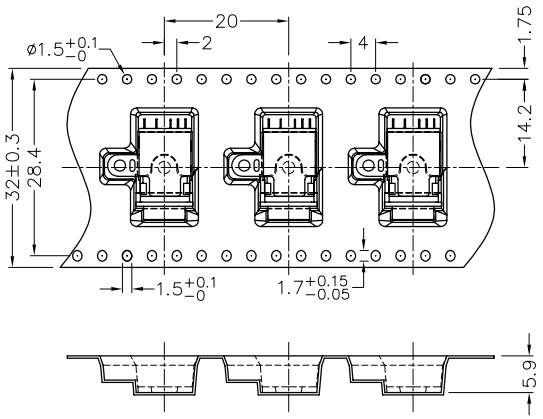



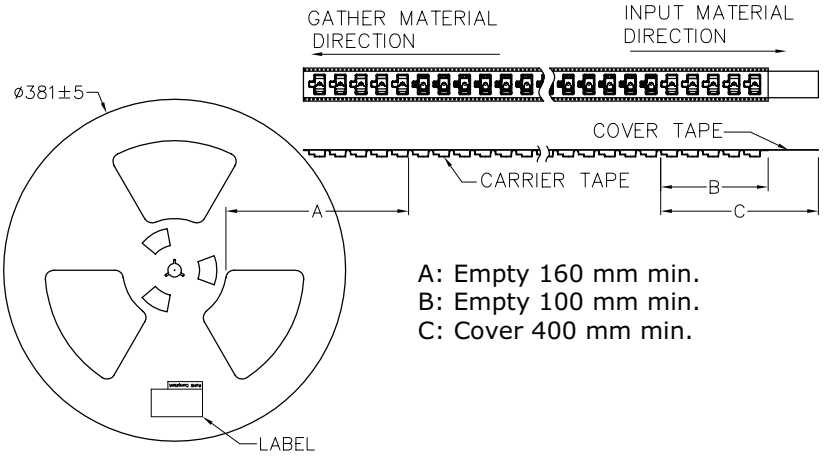

After assembling on chassis

## PACKAGING

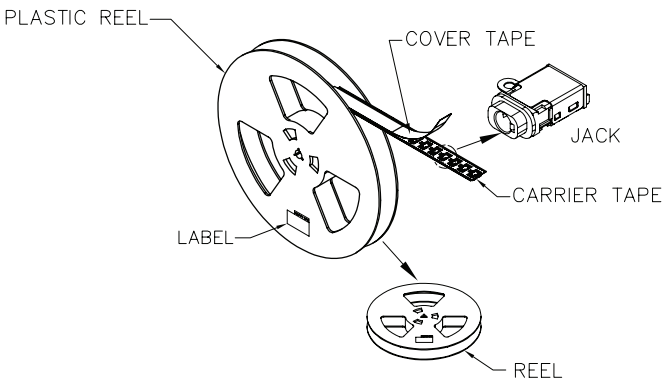
units: mm

Reel Size: Ø381 mm
Reel QTY: 750 pcs per reel




A: Empty 160 mm min.
B: Empty 100 mm min.
C: Cover 400 mm min.



## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 08/07/2018 |
| 1.01 | brand update | 10/08/2019 |
| 1.02 | added o-ring p/n | 04/07/2022 |
| 1.03 | 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

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