CUI DEVICES



## MODEL: MJ1-2533-SMT-TR | DESCRIPTION: AUDIO JACK

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### FEATURES

- surface mount
- horizontal
- tip switch
- tape and reel package
- suitable for medical applications

RoHS

## SPECIFICATIONS

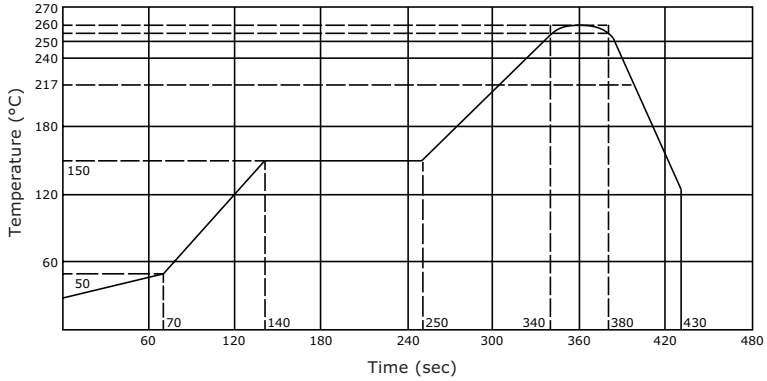
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance[1] | between terminal and mating plug<br>between terminal in a closed circuit | | | 50<br>30 | mΩ<br>mΩ |
| insulation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

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

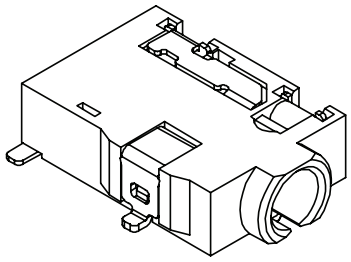
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| reel storage | at relative humidity <80% | | | 40 | °C |
| reflow soldering[3] | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions[4] | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours | | | | |

Note: 3. Must 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.

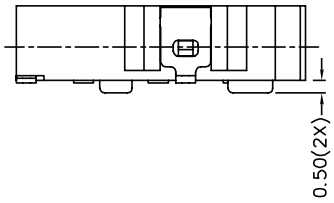


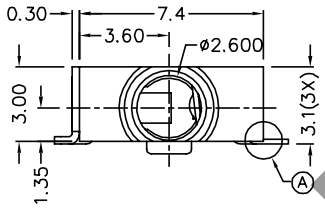
## MECHANICAL DRAWING

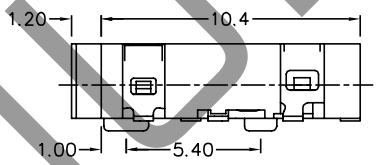
units: mm
tolerance:
X.X ±0.2mm
X.XX ±0.1mm
X.XXX ±0.05mm
PCB: ±0.05 mm

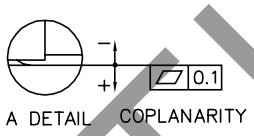


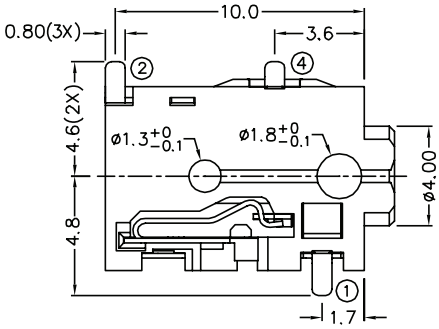
| | MATERIAL | PLATING |
|---|---|---|
| terminal 1 | copper alloy | gold flash |
| terminal 2 | copper alloy | gold flash |
| terminal 4 | brass | gold flash |
| plastic | PA6T or equivalent | |

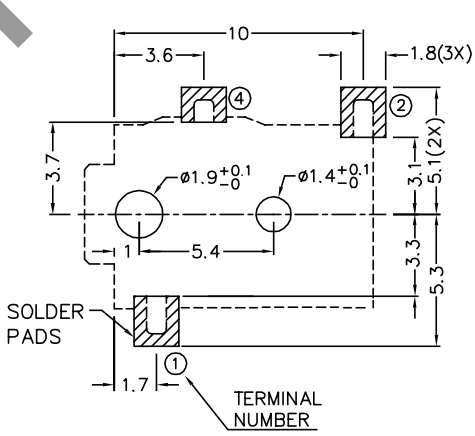


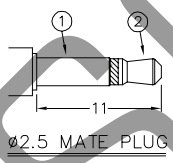



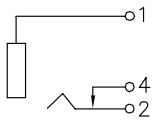




Recommended PCB Layout
Top View




| Model No. | MJ1-2533-SMT-TR |
|---|---|
| Schematic |  |
| PIN | |
| 1 | sleeve |
| 2 | tip |
| 4 | tip switch |



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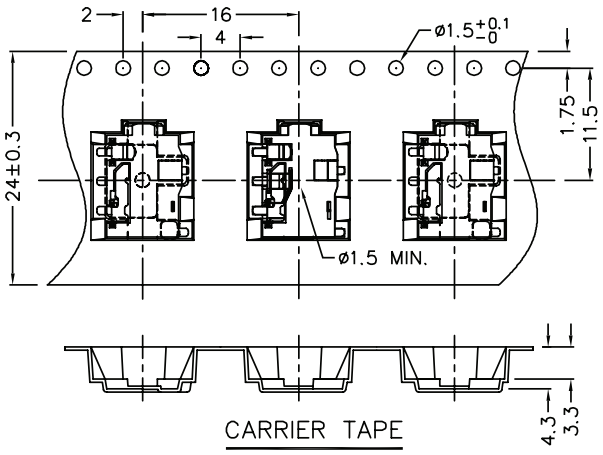
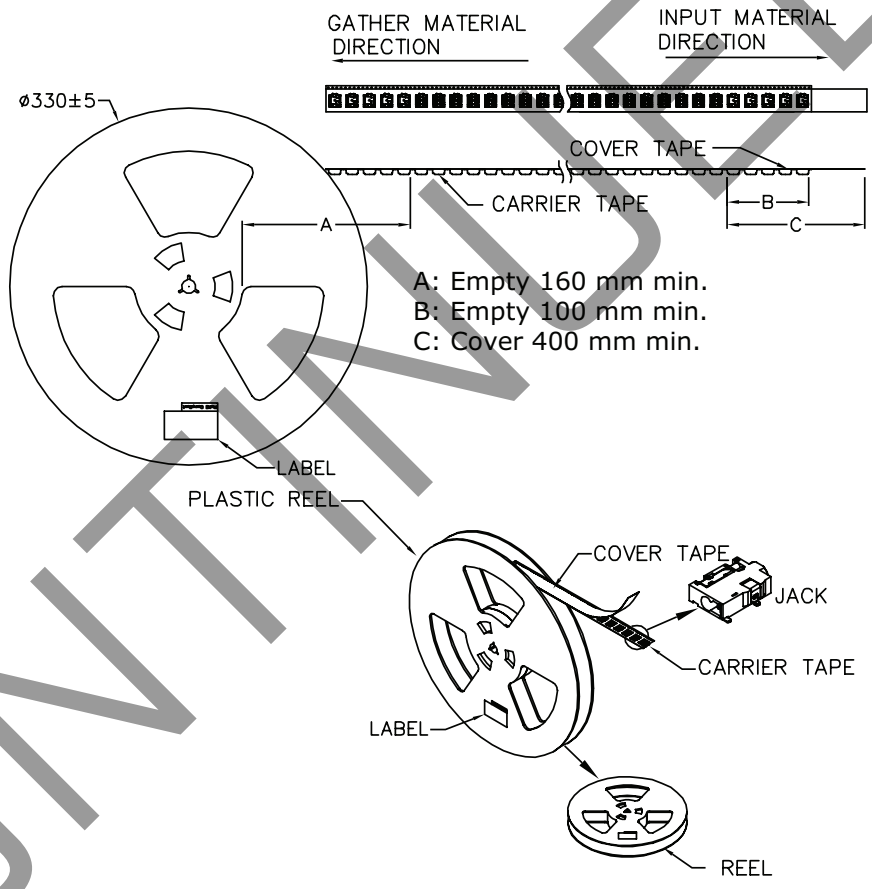
## PACKAGING

units: mm

Reel Size: Ø330 mm
Reel QTY: 1,000 pcs per reel

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## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 04/11/2006 |
| 1.01 | housing updated | 09/08/2010 |
| 1.02 | added TR package option | 11/07/2012 |
| 1.03 | added storage and drying conditions, and tape and reel packaging details | 02/16/2018 |
| 1.04 | brand update | 10/04/2019 |

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

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