

**MODEL:** MJ1-2533-SMT-TR | **DESCRIPTION:** AUDIO JACK**FEATURES**

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

**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 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**

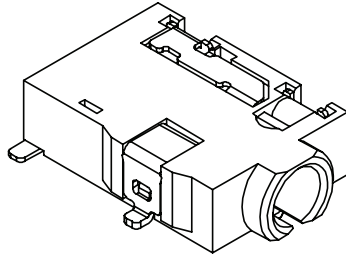
| parameter                      | conditions/description   | min | typ | max | units |
|--------------------------------|--|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%  |     |     | 40  | °C    |
| reflow soldering <sup>3</sup>  | see reflow profile   | 255 | 260 | 265 | °C    |
| drying conditions <sup>4</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: 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.

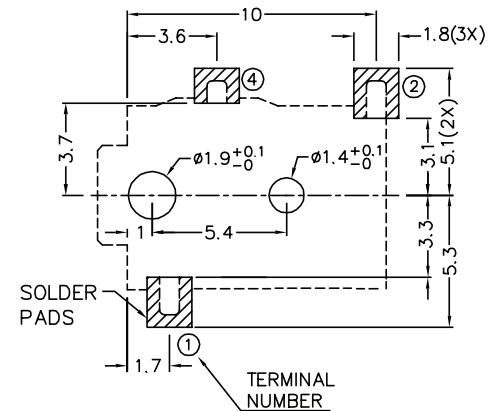
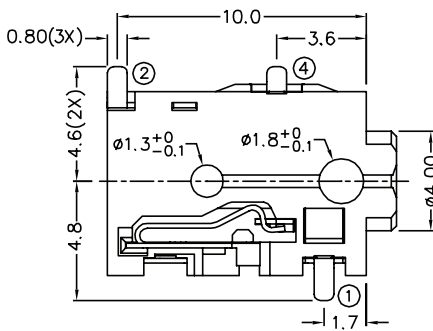
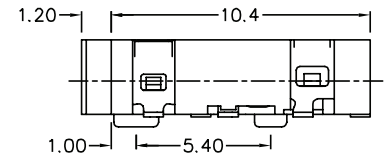
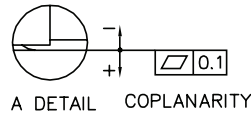
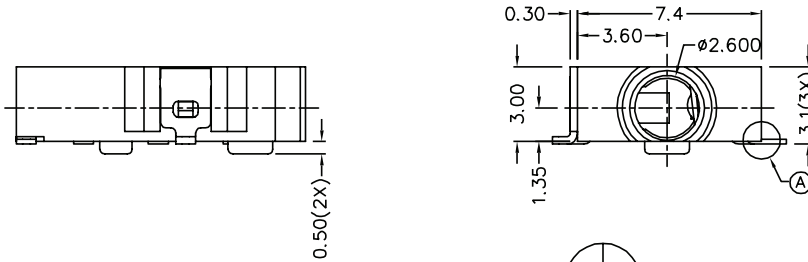


## MECHANICAL DRAWING

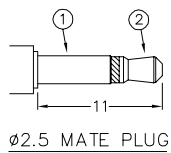
units: mm  
 tolerance:  
 X.X ±0.2mm  
 X.XX ±0.1mm  
 X.XXX ±0.05mm  
 PCB: ±0.05 mm



|            | 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



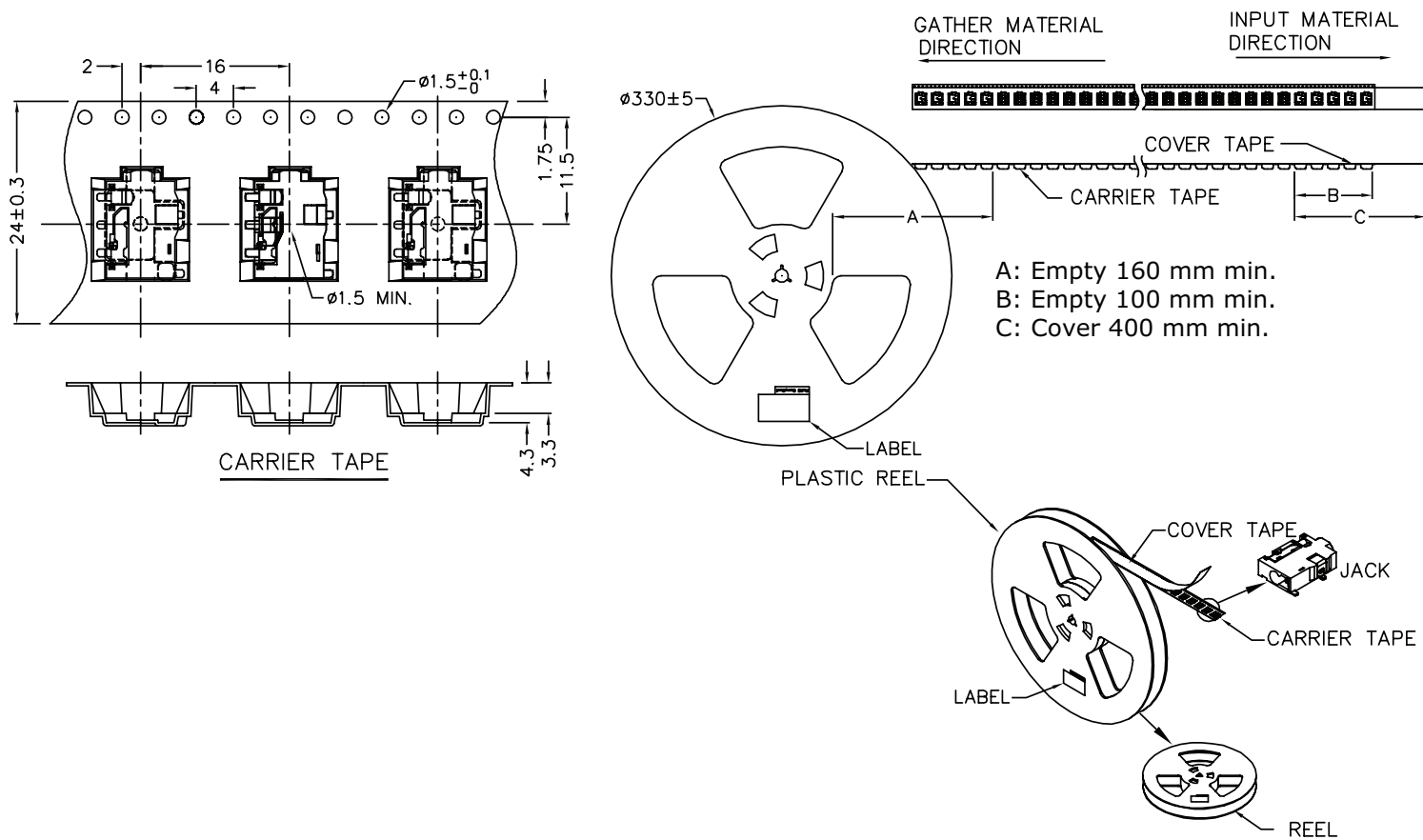
| Model No. | MJ1-2533-SMT-TR |
|-----------|-----------------|
| Schematic |                 |
| PIN       |                 |
| 1         | sleeve          |
| 2         | tip             |
| 4         | tip switch      |

## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 1,000 pcs per reel



## REVISION HISTORY

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| 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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