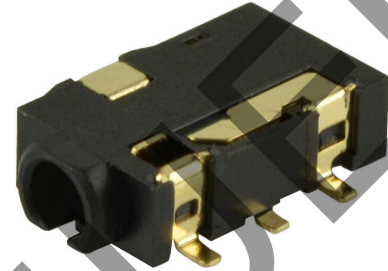


**SERIES:** SJ2-2531X-SMT | **DESCRIPTION:** AUDIO JACK**FEATURES**

- gold flash terminal plating
- multiple switch configurations
- reflow solder compatible
- low profile design

**PART NUMBER KEY****SJ2-2531 XX - SMT-TR**

Base Number

# Conductors:

2<sup>1</sup> = 2  
3 = 3

Switch Options:

A = no switch  
B = tip switch  
C = ring switch  
D = tip & ring switch

Package Style:

SMT = surface mount

Packaging:

TR = Tape &amp; Reel

Note: 1. 2 conductor option only available with tip switch

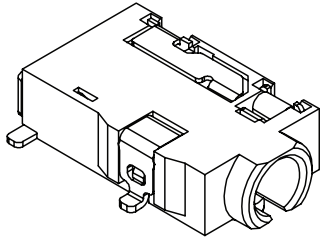
**SPECIFICATIONS**

| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage             |                                                                          |     | 12    |          | Vdc      |
| rated input current             |                                                                          |     |       | 1        | A        |
| contact resistance <sup>2</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                                                                      |     |       |          |          |

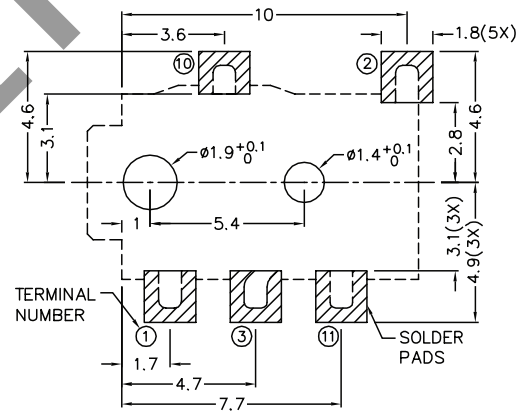
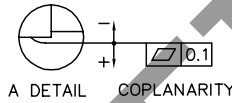
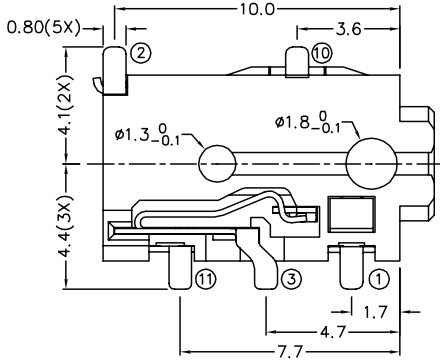
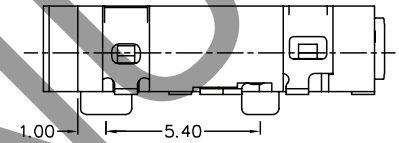
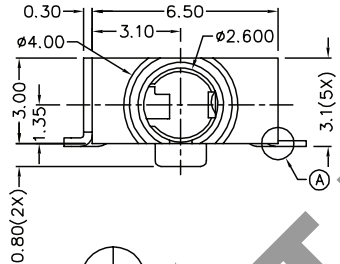
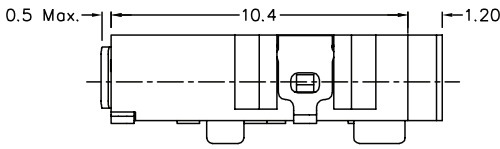
Note: 2. When measured at a current of less than 100 mA/1 kHz  
3. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## MECHANICAL DRAWING

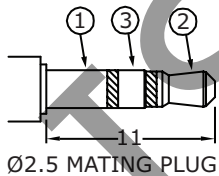
units: mm  
 tolerance:  
 X.X ±0.2 mm  
 X.XX ±0.10 mm  
 X.XXX ±0.050 mm  
 PCB: ±0.05 mm



|             | MATERIAL     | PLATING    |
|-------------|--------------|------------|
| terminal 1  | copper alloy | gold flash |
| terminal 2  | copper alloy | gold flash |
| terminal 3  | copper alloy | gold flash |
| terminal 10 | brass        | gold flash |
| terminal 11 | copper alloy | gold flash |
| plastic     | PA10T        |            |



Recommended PCB Layout  
Top View

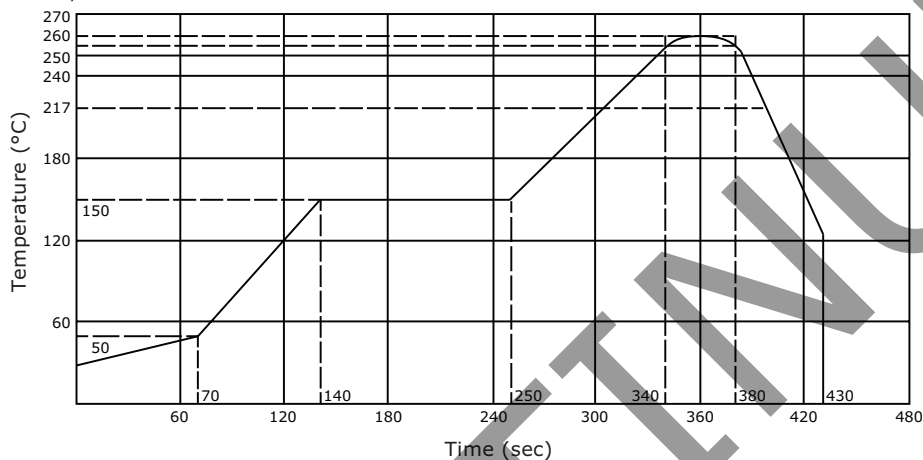


| Model No. | SJ2-25312B-SMT | SJ2-25313A-SMT | SJ2-25313B-SMT | SJ2-25313C-SMT | SJ2-25313D-SMT |
|-----------|----------------|----------------|----------------|----------------|----------------|
| Schematic |                |                |                |                |                |
| PIN       |                |                |                |                |                |
| 1         | sleeve         | sleeve         | sleeve         | sleeve         | sleeve         |
| 2         | tip            | tip            | tip            | tip            | tip            |
| 3         | NP             | ring           | ring           | ring           | ring           |
| 10        | tip switch     | NP             | tip switch     | NP             | tip switch     |
| 11        | NP             | NP             | NP             | ring switch    | ring switch    |

## SOLDERABILITY

| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%                                                                                |     |     | 40  | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile                                                                                       | 255 | 260 | 265 | °C    |
| drying conditions <sup>2</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 |     |     |     |       |

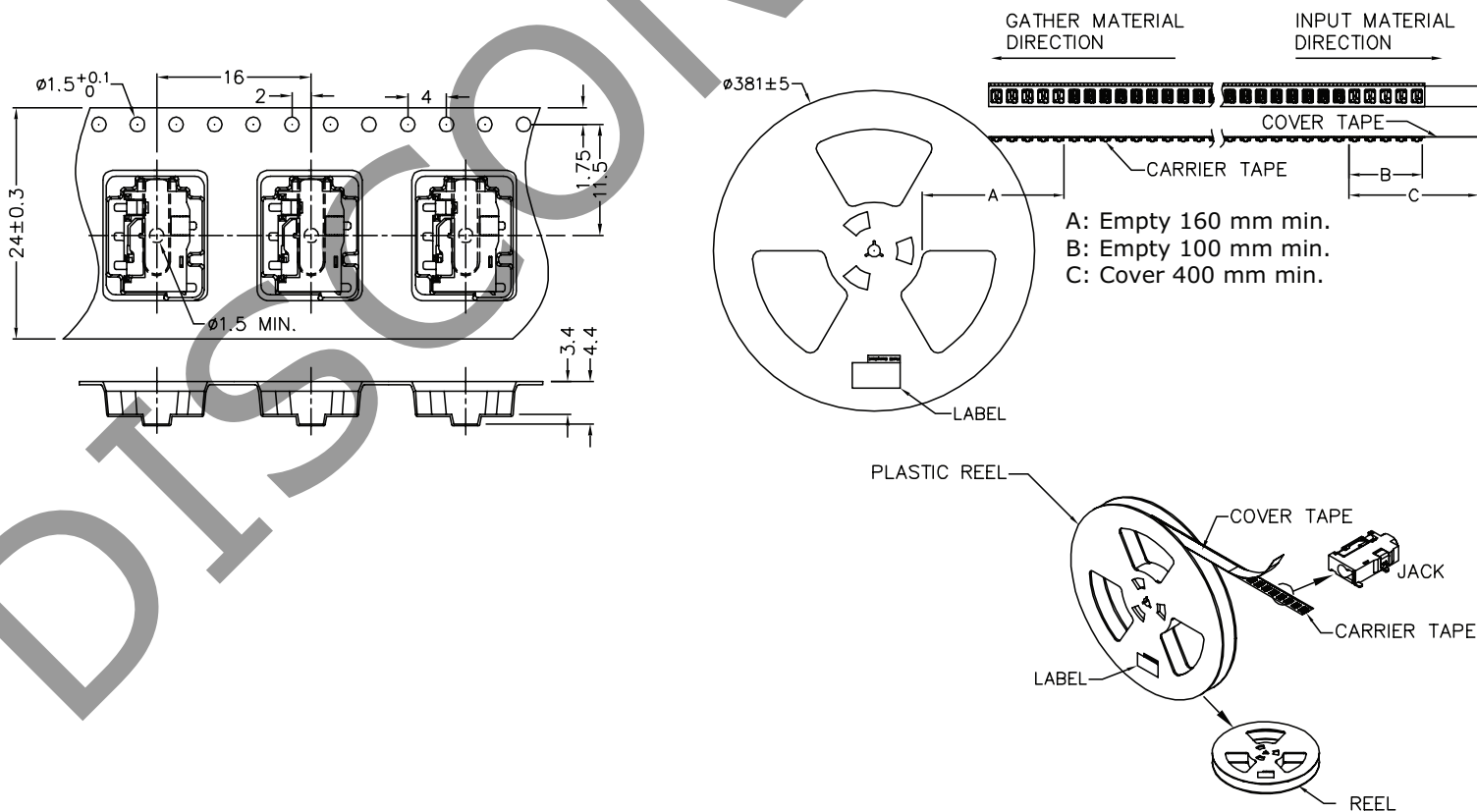
Note: 1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >72 hours.



## PACKAGING

units: mm

Reel Size: Ø381 mm  
Reel QTY: 1,300 pcs per reel



## REVISION HISTORY

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| rev. | description                         | date       |
|------|-------------------------------------|------------|
| 1.0  | initial release                     | 12/06/2016 |
| 1.01 | added storage and drying conditions | 06/06/2017 |
| 1.02 | brand update                        | 10/04/2019 |

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

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