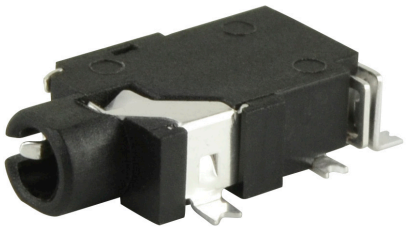
# SERIES: SJ2-252X-SMT | DESCRIPTION: AUDIO JACK

## FEATURES

- multiple switch configurations
- low profile design
- reflow solder compatible
- surface mount



RoHS

## PART NUMBER KEY

SJ2 - 252 X X - SMT - TR

| Base Number | # Conductors: | Switch Options: | Package Style: | Packaging: |
|---|---|---|---|---|
| | 3[1] = 3<br>4 = 4 | A = no switch<br>B* = tip switch<br>C* = ring switch<br>D* = tip & ring switch | SMT = surface mount | TR = Tape & Reel |

Notes: 1. 3 conductor option only available with tip & ring switch
*Discontinued models SJ2-2524D-SMT-TR, SJ2-2524B-SMT-TR, SJ2-2524C-SMT-TR & SJ2-2523D-SMT-TR

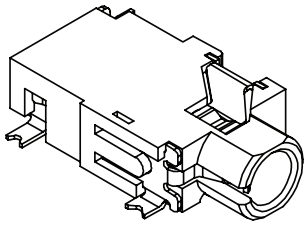
## SPECIFICATIONS

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

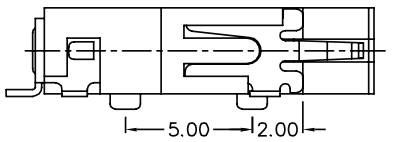
Note: 2. When measured at a current of less than 100 mA/1 kHz
3. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

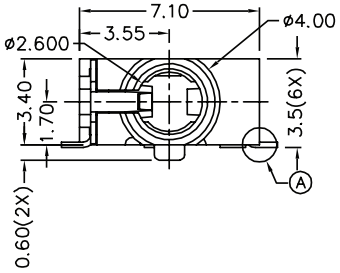
## MECHANICAL DRAWING

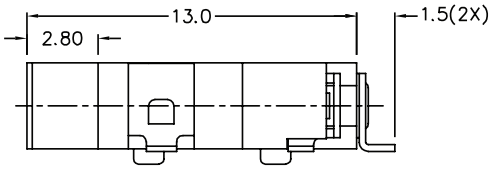
units: mm
tolerance:
X.X ±0.2 mm
X.XX ±0.10 mm
X.XXX ±0.050 mm
PCB: ±0.05 mm

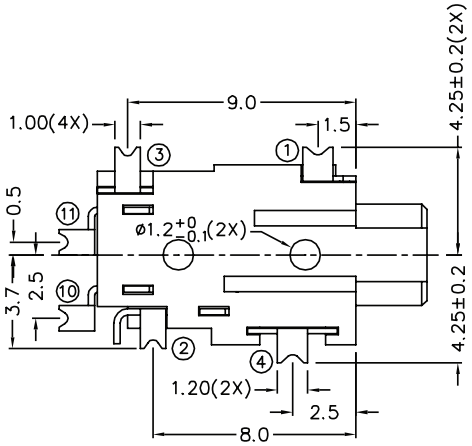


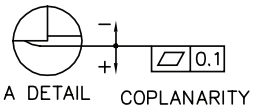
| | MATERIAL | PLATING |
|---|---|---|
| terminal 1 | copper alloy | silver |
| terminal 2 | copper alloy | silver |
| terminal 3 | copper alloy | silver |
| terminal 4 | copper alloy | silver |
| terminal 10 | brass | silver |
| terminal 11 | brass | silver |
| plastic | PA10T | |

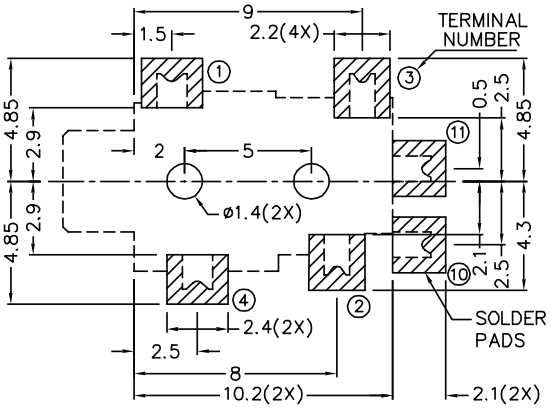


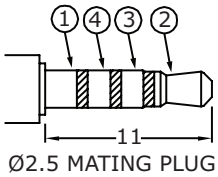



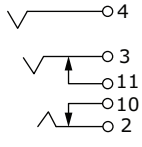
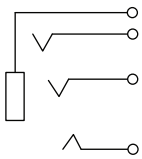
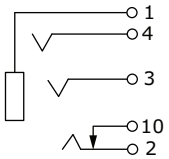
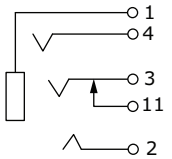
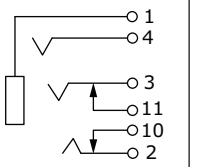




Recommended PCB Layout
Top View



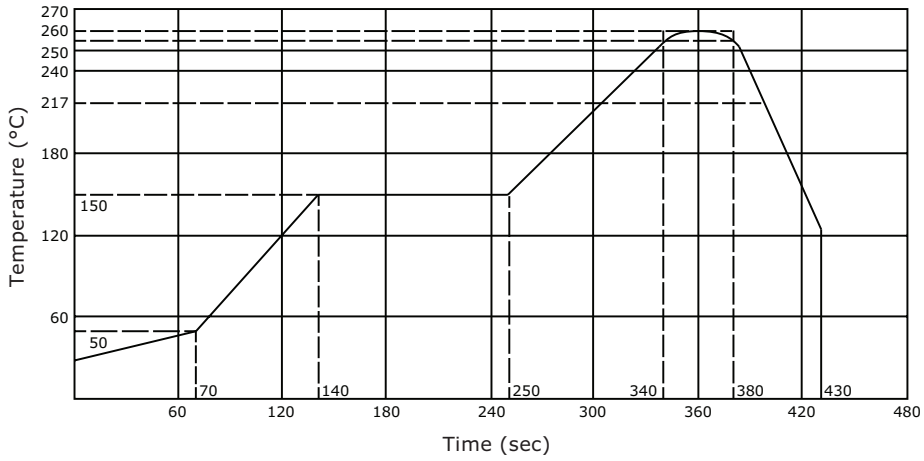

Ø2.5 MATING PLUG

| Model No. | SJ2-2523D-SMT | SJ2-2524A-SMT | SJ2-2524B-SMT | SJ2-2524C-SMT | SJ2-2524D-SMT |
|---|---|---|---|---|---|
| Schematic |  |  |  |  |  |
| PIN | | | | | |
| 1 | NP | sleeve | sleeve | sleeve | sleeve |
| 2 | tip | tip | tip | tip | tip |
| 3 | ring 1 | ring 1 | ring 1 | ring 1 | ring 1 |
| 4 | ring 2 | ring 2 | ring 2 | ring 2 | ring 2 |
| 10 | tip switch | NP | tip switch | NP | tip switch |
| 11 | ring 1 switch | NP | NP | ring 1 switch | ring 1 switch |

## SOLDERABILITY

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

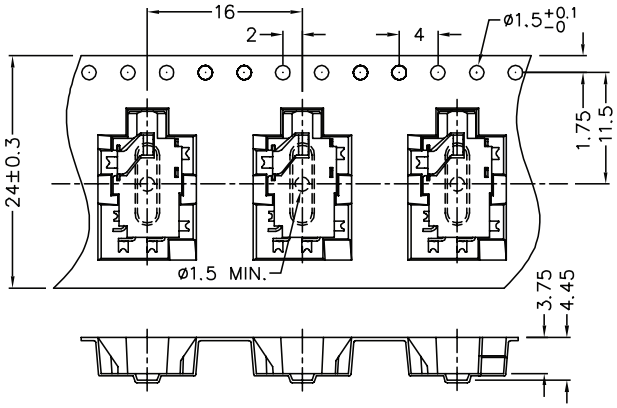
Note: 1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by >72 hours.

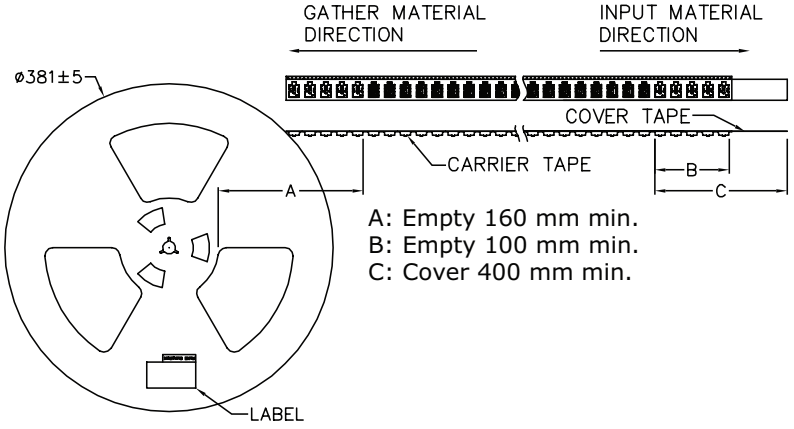


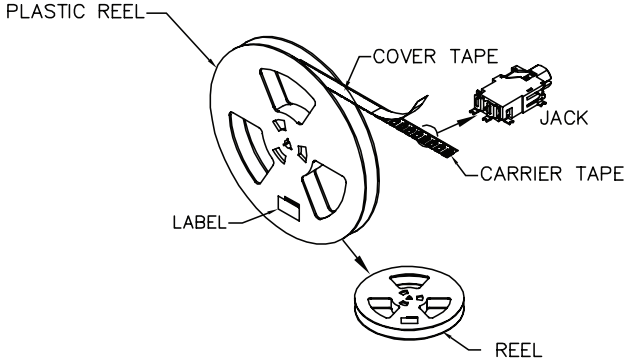

## PACKAGING

units: mm

Reel Size: Ø381 mm
Reel QTY: 1,200 pcs per reel



## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 12/02/2016 |
| 1.01 | added storage and drying conditions | 07/21/2017 |
| 1.02 | brand update | 10/04/2019 |
| 1.03 | discontinued models SJ2-2524D-SMT-TR, SJ2-2524B-SMT-TR, SJ2-2524C-SMT-TR & SJ2-2523D-SMT-TR; logo, datasheet style update | 08/18/2022 |

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

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