

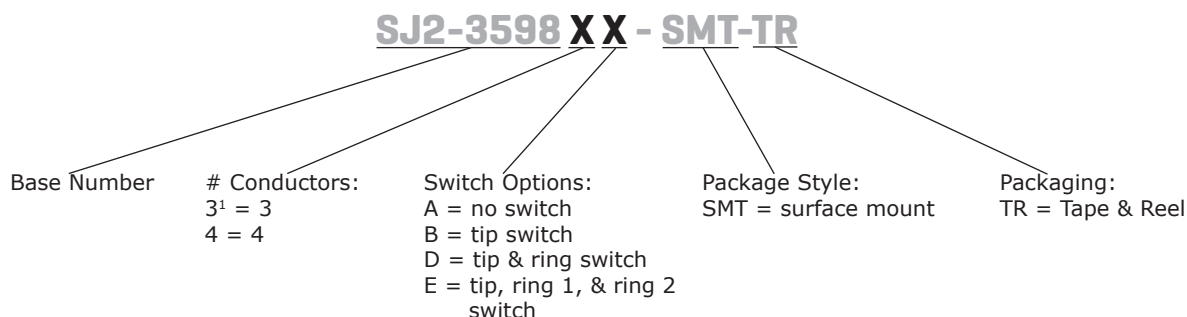
## SERIES: SJ2-3598X-SMT | DESCRIPTION: AUDIO JACK

### FEATURES

- gold flash terminal plating
- multiple switch configurations
- reflow solder compatible
- surface mount
- suitable for medical applications



### PART NUMBER KEY



Note: 1. 3 conductor option only available with tip & ring switch

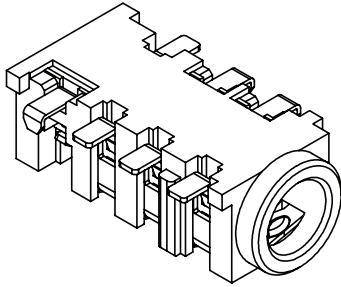
### SPECIFICATIONS

| 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  |     |       |          |          |

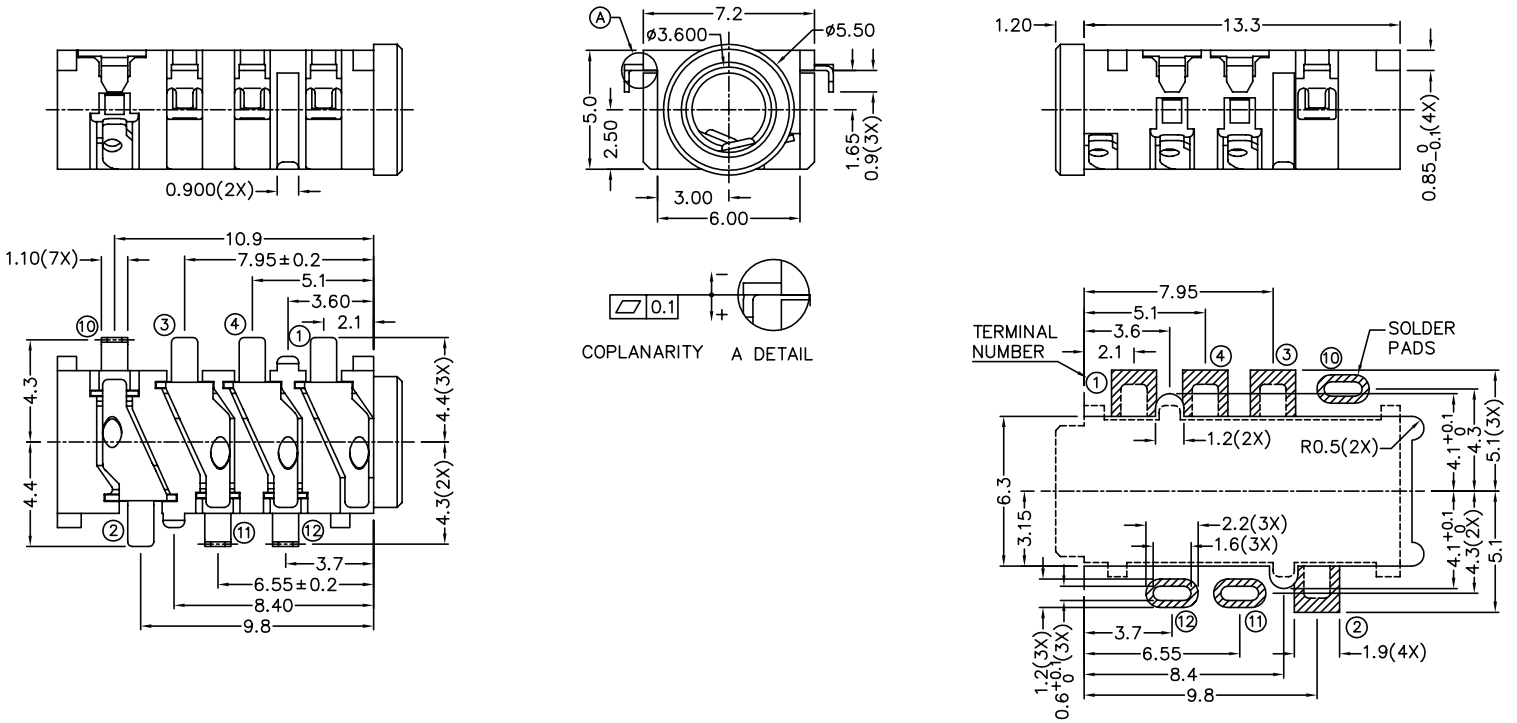
Note: 2. When measured at a current of less than 100 mA/1 kHz  
 3. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## MECHANICAL DRAWING

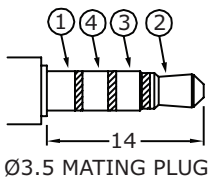
units: mm  
 tolerance:  
 X.X ±0.2 mm  
 X.XX ±0.10 mm  
 X.XXX ±0.050 mm  
 PCB: ±0.05 mm



|             | MATERIAL     | PLATING    |
|-------------|--------------|------------|
| terminal 1  | copper alloy | gold flash |
| terminal 2  | copper alloy | gold flash |
| terminal 3  | copper alloy | gold flash |
| terminal 4  | copper alloy | gold flash |
| terminal 10 | brass        | gold flash |
| terminal 11 | brass        | gold flash |
| terminal 12 | brass        | gold flash |
| plastic     | PA10T        |            |



Recommended PCB Layout  
Top View



| Model No. | SJ2-35983D-SMT | SJ2-35984A-SMT | SJ2-35984B-SMT | SJ2-35984D-SMT | SJ2-35984E-SMT |
|-----------|----------------|----------------|----------------|----------------|----------------|
| Schematic |                |                |                |                |                |
| PIN       |                |                |                |                |                |
| 1         | sleeve         | sleeve         | sleeve         | sleeve         | sleeve         |
| 2         | tip            | tip            | tip            | tip            | tip            |
| 3         | ring 1         | ring 1         | ring 1         | ring 1         | ring 1         |
| 4         | NP             | ring 2         | ring 2         | ring 2         | ring 2         |
| 10        | tip switch     | NP             | tip switch     | tip switch     | tip switch     |
| 11        | ring 1 switch  | NP             | NP             | ring 1 switch  | ring 1 switch  |
| 12        | NP             | NP             | NP             | NP             | ring 2 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 |     |     |     |       |

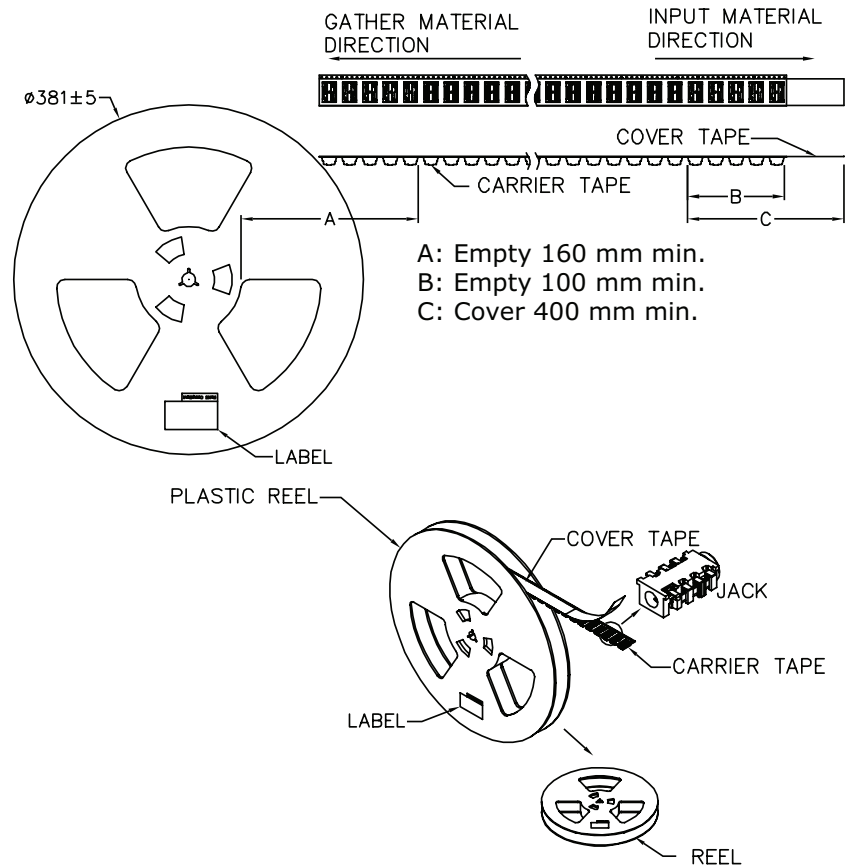
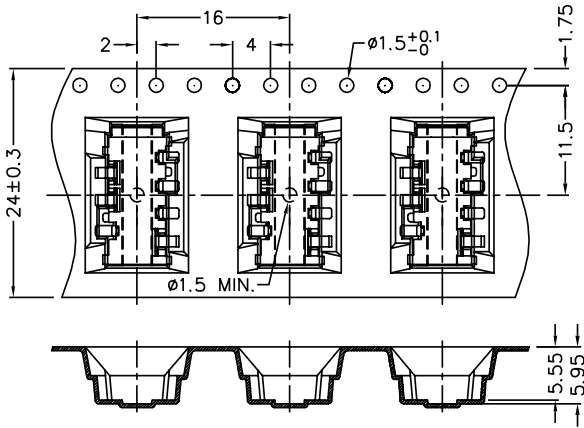
Note: 1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >72 hours.



## PACKAGING

units: mm

Reel Size: Ø381 mm  
Reel QTY: 1,000 pcs per reel



## REVISION HISTORY

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| rev. | description                         | date       |
|------|-------------------------------------|------------|
| 1.0  | initial release                     | 12/16/2016 |
| 1.01 | added storage and drying conditions | 06/22/2017 |
| 1.02 | brand update                        | 10/10/2019 |

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

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