

**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****SJ2-3598XX-SMT-TR**

Base Number

# Conductors:  
3<sup>1</sup> = 3  
4 = 4Switch Options:  
A = no switch  
B = tip switch  
D = tip & ring switch  
E = tip, ring 1, & ring 2  
switchPackage Style:  
SMT = surface mountPackaging:  
TR = Tape & Reel

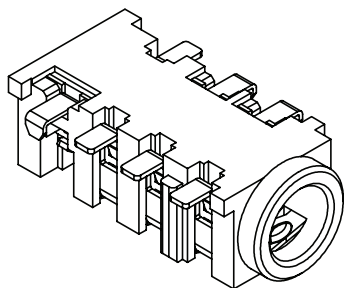
Note: 1. 3 conductor option only available with tip &amp; ring switch

**SPECIFICATIONS**

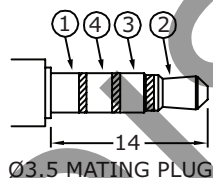
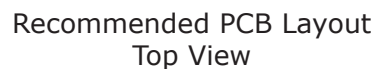
| parameter                       | conditions/description                                                   | min | typ   | max      | units    |
|---------------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated 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.

units: mm  
tolerance:  
X.X  $\pm 0.2$  mm  
X.XX  $\pm 0.10$  mm  
X.XXX  $\pm 0.050$  mm  
PCB:  $\pm 0.05$  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        |            |



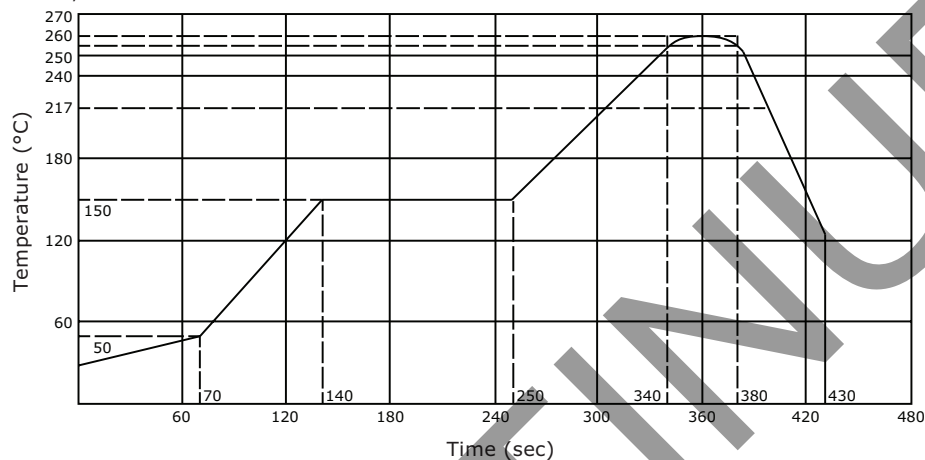
| Model No. | SJ2-35983D-SMT | SJ2-35984A-SMT | SJ2-35984B-SMT | SJ2-35984D-SMT | SJ2-35984E-SMT |
|-----------|----------------|----------------|----------------|----------------|----------------|
| Schematic |                |                |                |                |                |
| PIN       |                |                |                |                |                |
| 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.

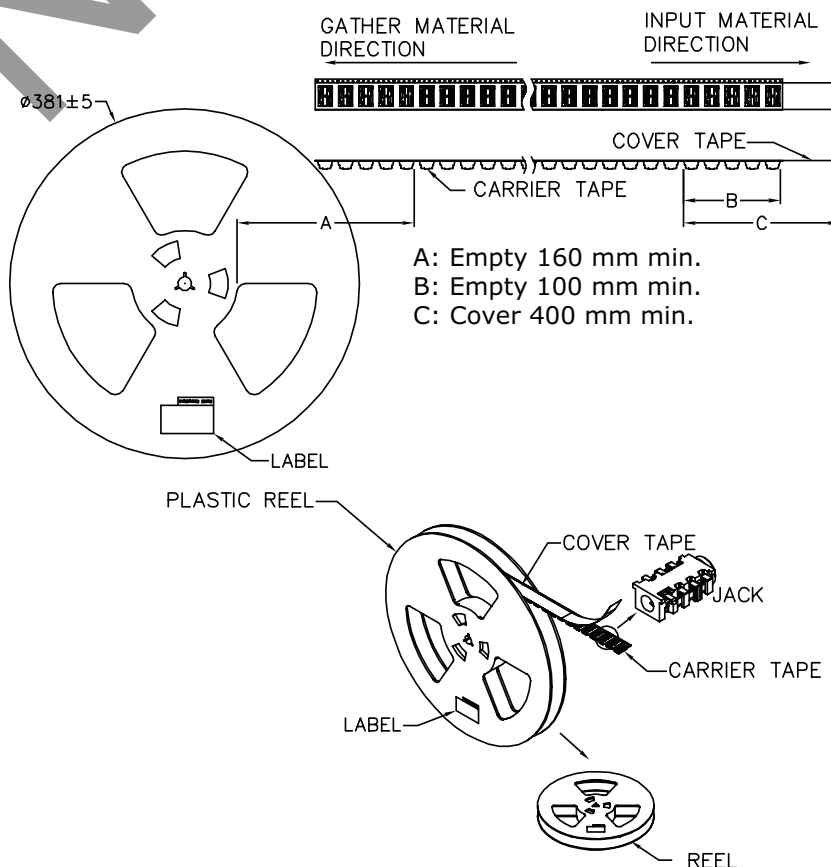
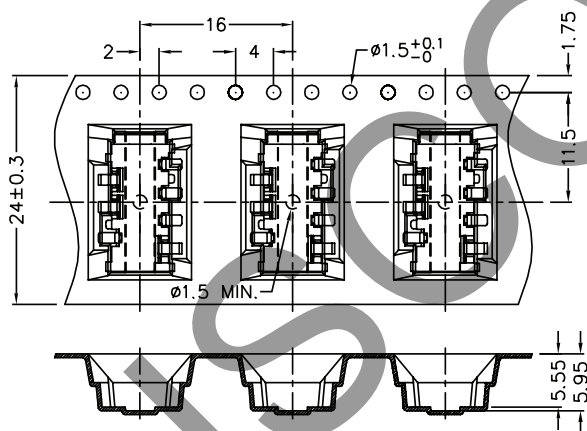


## PACKAGING

units: mm

Reel Size: Ø381 mm

Reel QTY: 1,000 pcs per reel



## REVISION HISTORY

| 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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