

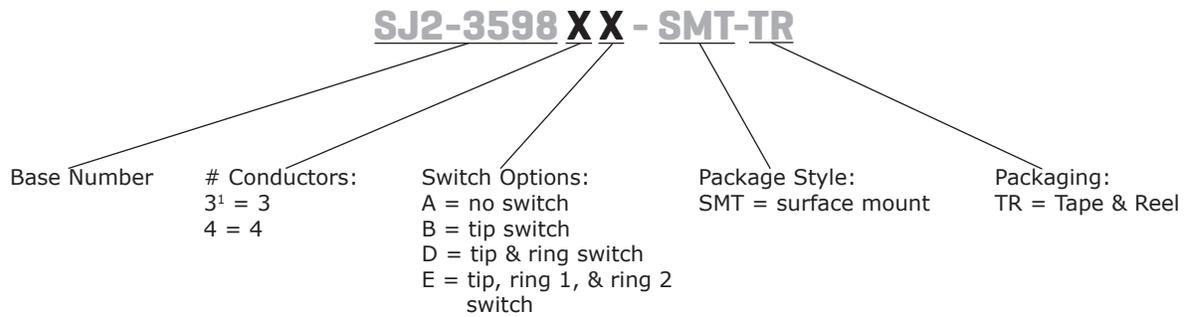
SERIES: SJ2-3598X-SMT | **DESCRIPTION:** AUDIO JACK

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

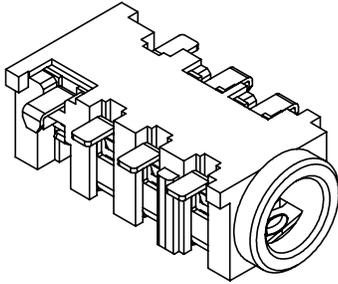
SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance ² | between terminal and mating plug between terminal in a closed circuit | | | 50 30 | mΩ 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 | 2011/65/EU | | | | |

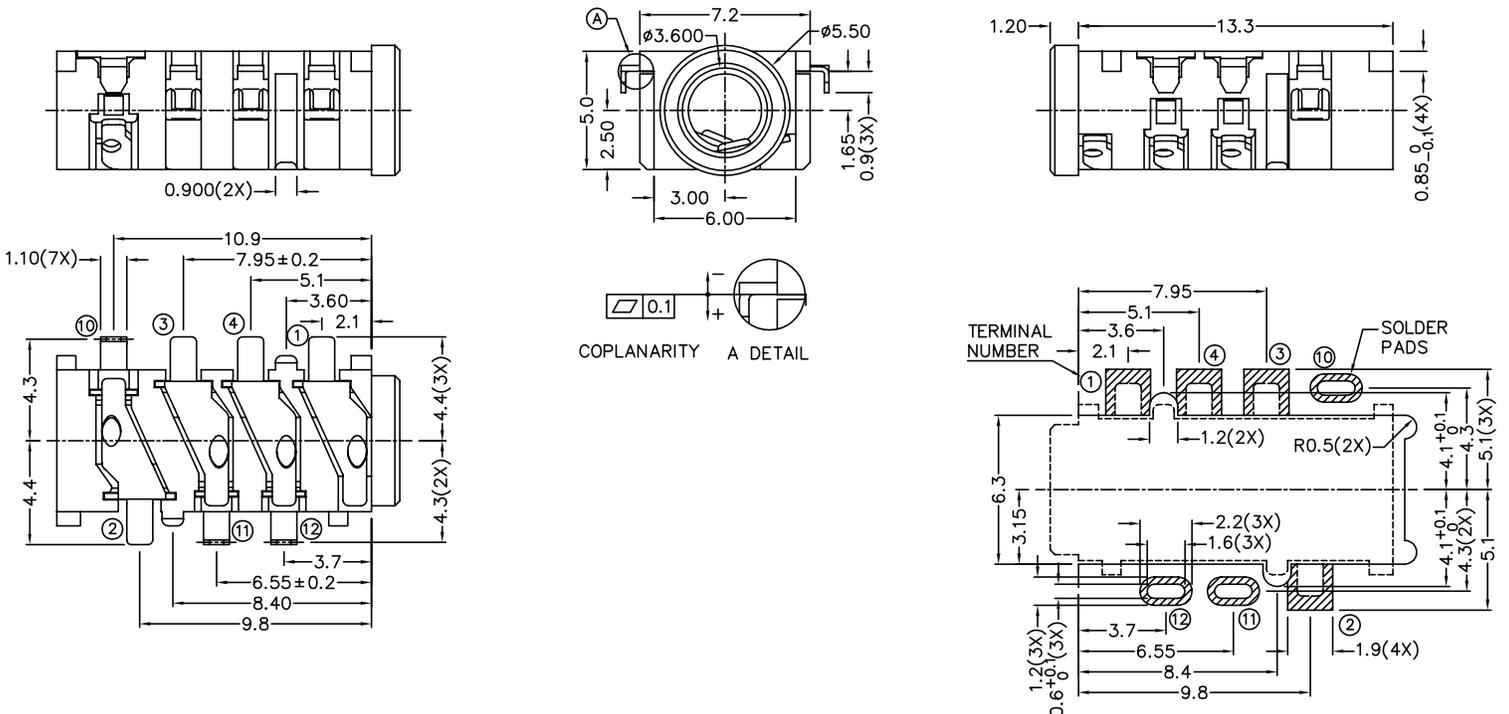
Note: 2. When measured at a current of less than 100 mA/1 kHz
3. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

MECHANICAL DRAWING

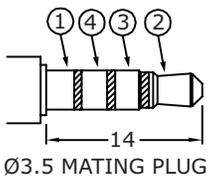
units: mm
 tolerance:
 X.X ±0.2 mm
 X.XX ±0.10 mm
 X.XXX ±0.050 mm
 PCB: ±0.05 mm



| | 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

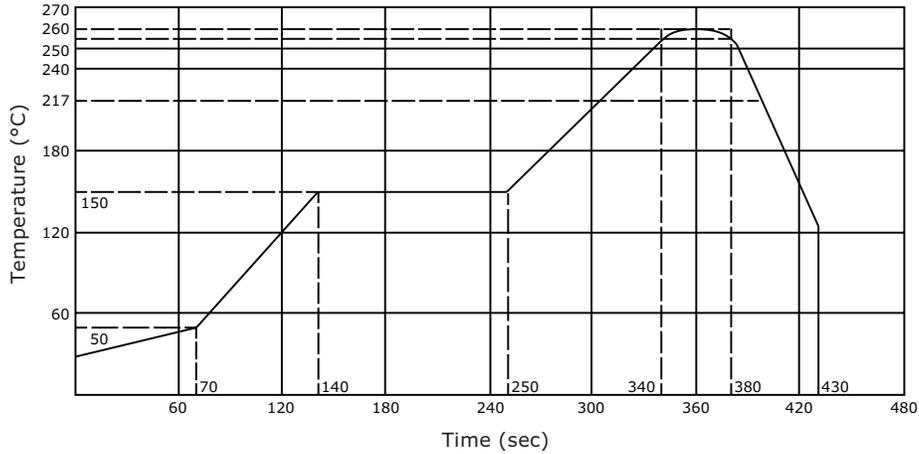


| Model No. | SJ2-35983D-SMT | SJ2-35984A-SMT | SJ2-35984B-SMT | SJ2-35984D-SMT | SJ2-35984E-SMT |
|-----------|----------------|----------------|----------------|----------------|----------------|
| Schematic | | | | | |
| PIN | | | | | |
| 1 | sleeve | sleeve | sleeve | sleeve | sleeve |
| 2 | tip | tip | tip | tip | tip |
| 3 | ring 1 |
| 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 ¹ | see reflow profile | 255 | 260 | 265 | °C |
| drying conditions ² | parts in reel: bake at 40°C ±5°C for 72 hours parts removed from reel: bake at 40°C ±5°C for 10 hours | | | | |

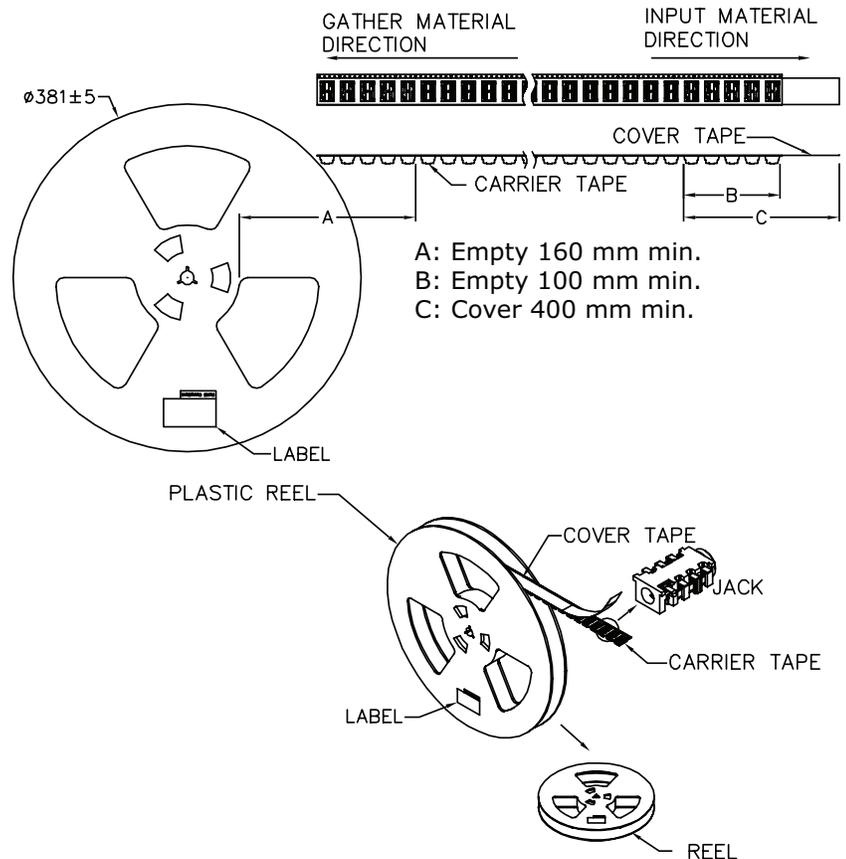
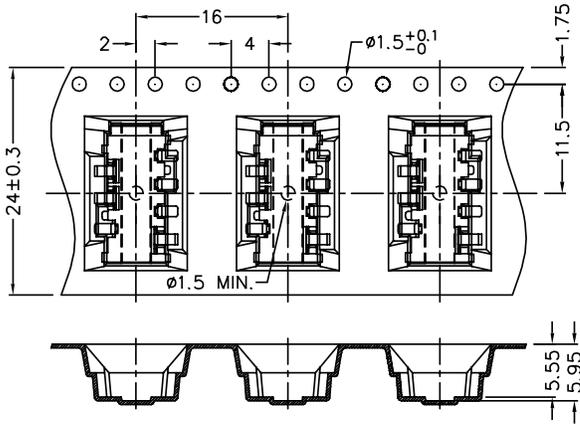
Note: 1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by >72 hours.



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 |

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



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