

**SERIES:** SJ-352X-SMT | **DESCRIPTION:** AUDIO JACK

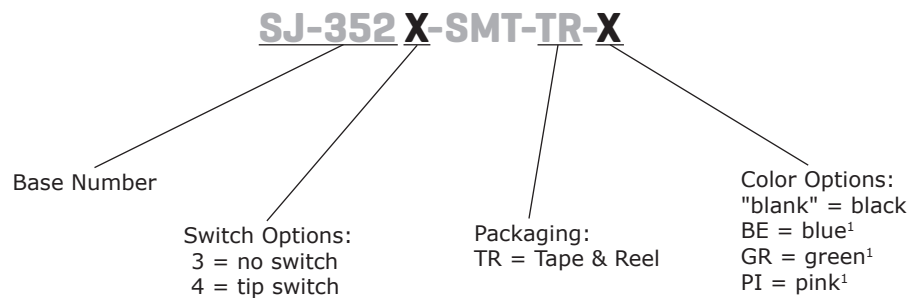
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**FEATURES**

- low profile design
- switch options include:
  - no switch
  - tip switch

**PART NUMBER KEY**

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Note: 1. Tip switch option only

**SPECIFICATIONS**

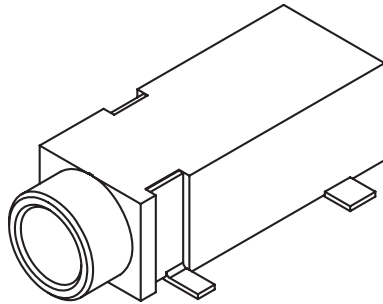
| parameter                       | conditions/description   | min | typ   | max      | units    |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage             |  |     | 12    |          | Vdc      |
| rated input current             |  |     |       | 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.

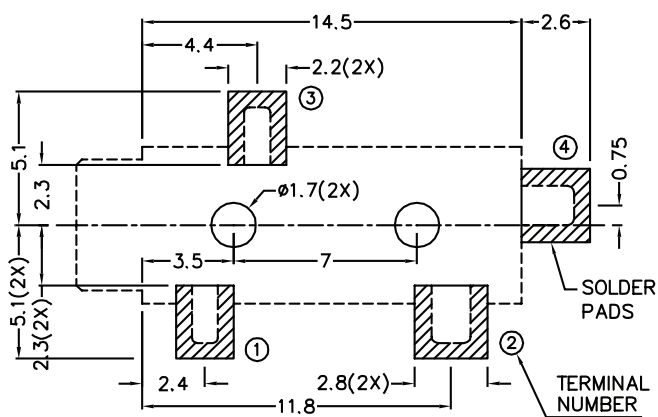
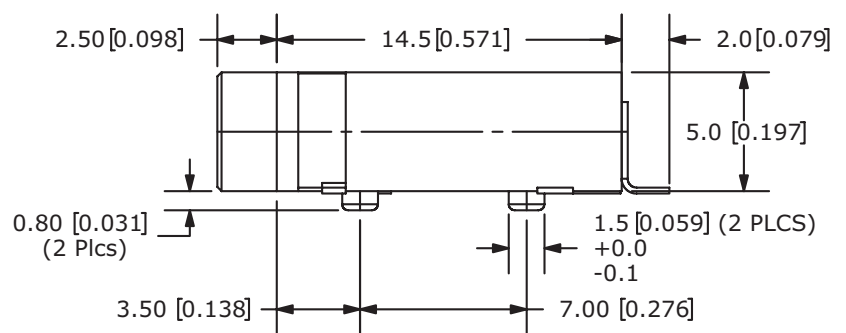
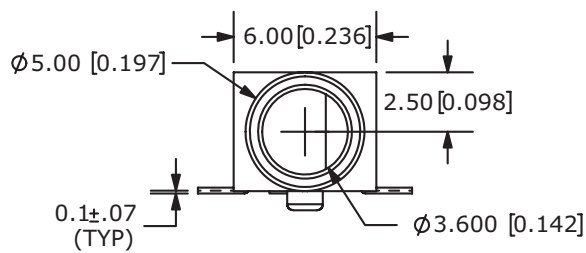
## MECHANICAL DRAWING

units: mm[inches]

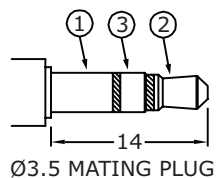
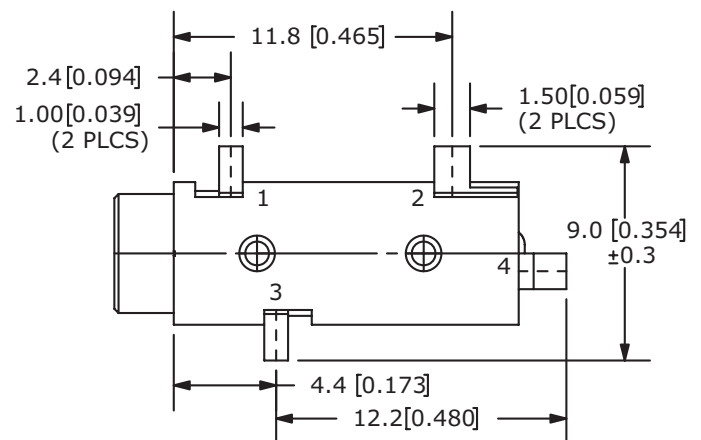
TOLERANCE:  
 X.X  $\pm 0.2$ mm  
 X.XX  $\pm 0.1$ mm  
 X.XXX  $\pm 0.05$ mm  
 PCB:  $\pm 0.05$  mm



|            | MATERIAL           | PLATING |
|------------|--------------------|---------|
| terminal 1 | copper alloy       | silver  |
| terminal 2 | copper alloy       | silver  |
| terminal 3 | copper alloy       | silver  |
| terminal 4 | brass              | silver  |
| plastic    | PA6T or equivalent |         |



Recommended PCB Layout  
Top View



Ø3.5 MATING PLUG

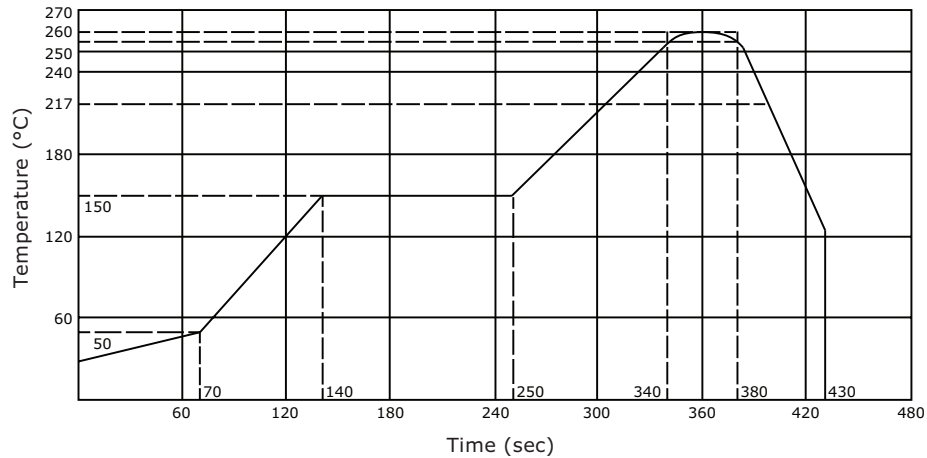
| Model No. | SJ-3523-SMT | SJ-3524-SMT |
|-----------|-------------|-------------|
| Schematic |             |             |
| PIN       |             |             |
| 1         | sleeve      | sleeve      |
| 2         | tip         | tip         |
| 3         | ring        | ring        |
| 4         | NP          | tip 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:

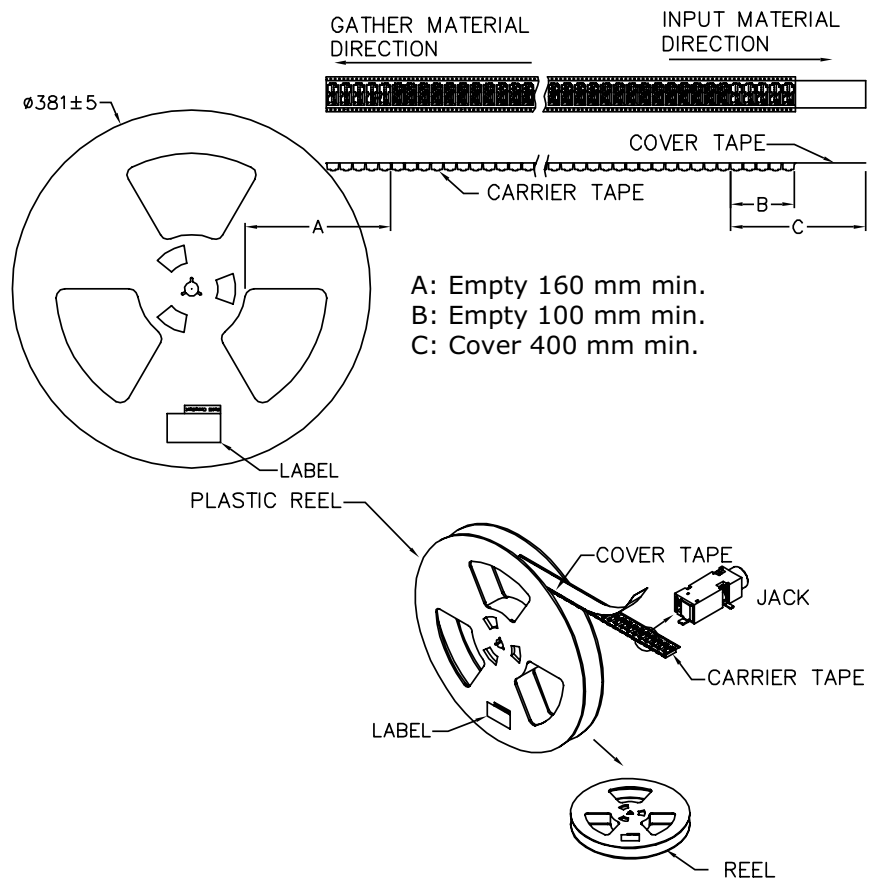
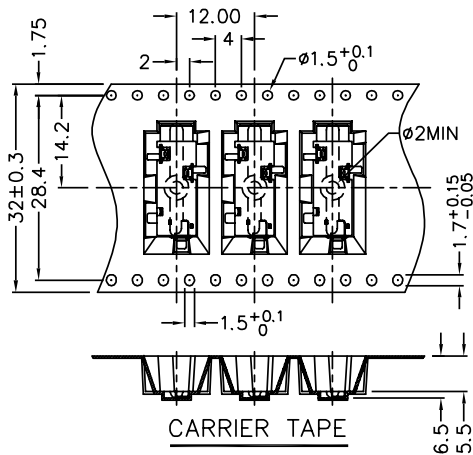
1. Must reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.
2. When exceeding floor life by >72 hours.



## PACKAGING

units: mm

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



## REVISION HISTORY

| rev. | description  | date       |
|------|--|------------|
| 1.0  | initial release  | 02/07/2006 |
| 1.01 | new template applied   | 01/25/2012 |
| 1.02 | added TR package and color options                                       | 11/01/2012 |
| 1.03 | added storage and drying conditions, and tape and reel packaging details | 02/15/2018 |
| 1.04 | brand update   | 10/09/2019 |

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

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