

**date** 05/31/2017

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SERIES: SJ-250X-SMT | DESCRIPTION: AUDIO JACK

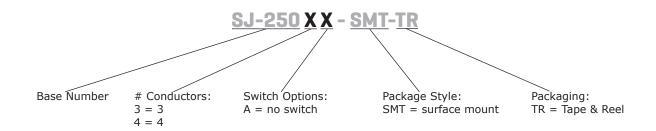
### **FEATURES**

- right angle
- low profile design
- reflow solder compatible
- surface mount





## **PART NUMBER KEY**



### **SPECIFICATIONS**

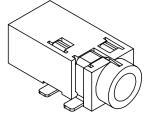
| parameter                       | conditions/description   | min | typ   | max      | units    |
|---------------------------------|--|-----|-------|----------|----------|
| rated input voltage             |  |     | 12    |          | Vdc      |
| rated input current             |  |     |       | 1        | А        |
| contact resistance <sup>1</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                            | 2011/65/EU   |     |       |          |          |

Note:

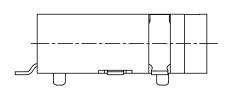
- 1. When measured at a current of less than 100 mA/1 kHz
- 2. All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

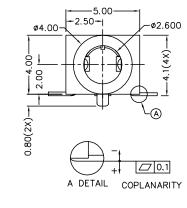
# **MECHANICAL DRAWING**

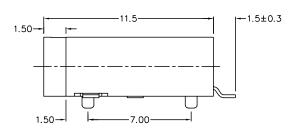
units: mm tolerance:  $X.X \pm 0.2 \text{ mm}$  $X.XX \pm 0.10 mm$  $X.XXX \pm 0.050 \text{ mm}$ PCB: ±0.05 mm

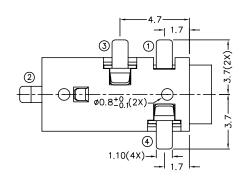


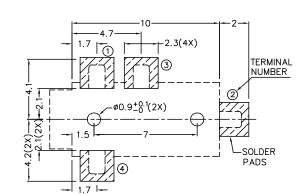
|            | MATERIAL     | PLATING |
|------------|--------------|---------|
| terminal 1 | copper alloy | silver  |
| terminal 2 | copper alloy | silver  |
| terminal 3 | copper alloy | silver  |
| terminal 4 | copper alloy | silver  |
| plastic    | PA10T        |         |
|            |      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



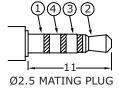








Recommended PCB Layout Top View



| Model No. | SJ-2503A-SMT   | SJ-2504A-SMT         |  |
|-----------|----------------|----------------------|--|
| Schematic | 04<br>03<br>02 | 01<br>04<br>03<br>03 |  |
| PIN       |                |                      |  |
| 1         | NP             | sleeve               |  |
| 2         | tip            | tip                  |  |
| 3         | ring 1         | ring 1               |  |
| 4         | ring 2 ring 2  |                      |  |

**JACK** 

CARRIER TAPE

REEL

## **SOLDERABILITY**

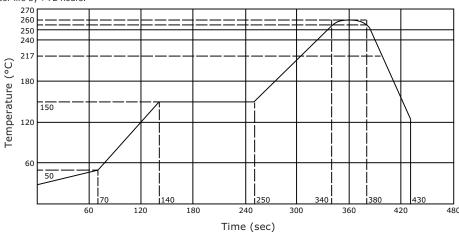
| parameter                     | conditions/description                        | min | typ | max | units |
|-------------------------------|---|-----|-----|-----|-------|
| reel storage                  | at relative humidity <80%                     |     |     | 40  | °C    |
| reflow soldering <sup>1</sup> | see reflow profile                            | 255 | 260 | 265 | °C    |
|                               | parts in reel: bake at 40°C ±5°C for 72 hours |     |     |     |       |

drying conditions<sup>2</sup>

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%. When exceeding floor life by >72 hours.



# **PACKAGING**

units: mm

Reel Size: Ø330 mm Reel QTY: 1,000 pcs per reel INPUT MATERIAL GATHER MATERIAL DIRECTION **DIRECTION** ø330±5ø1.5<sup>+0.1</sup> COVER TAPE - CARRIER TAPE  $24\pm0.3$ A: Empty 160 mm min. ۵ B: Empty 100 mm min. C: Cover 400 mm min. -LABEL PLASTIC REEL COVER TAPE



LABEL

### **REVISION HISTORY**

| rev. | description                         | date       |
|------|-------------------------------------|------------|
| 1.0  | initial release                     | 12/01/2016 |
| 1.01 | added storage and drying conditions | 05/31/2017 |

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



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