CUI DEVICES

Additional Resources: Product Page

date 10/04/2019

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SERIES: SJ2-2542X-SMT | DESCRIPTION: AUDIO JACK

FEATURES

- multiple switch configurations
- low profile design
- reflow solder compatible
- surface mount





PART NUMBER KEY

Base Number

Conductors: 4 = 4

Switch Options: A = no switch

B = tip switch

C = ring switch
D = tip & ring switch

Package Style: SMT = surface mount Packaging:

TR = Tape & Reel

SPECIFICATIONS

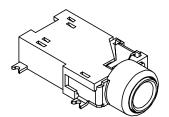
| parameter | conditions/description | min | typ | max | units |
|---------------------------------|--|-----|-------|----------|-----------|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | А |
| contact resistance ¹ | between terminal and mating plug between terminal in a closed circuit | | | 50 30 | $m\Omega$ |
| 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 | | | · | |

When measured at a current of less than 100 mA/1 kHz

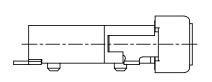
All specifications measured at 10~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

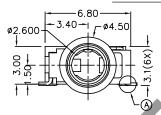
MECHANICAL DRAWING

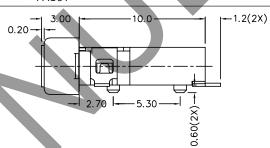
units: mm tolerance: $X.X \pm 0.2 \text{ mm}$ $X.XX \pm 0.10 mm$ X.XXX ±0.050 mm PCB: ±0.05 mm

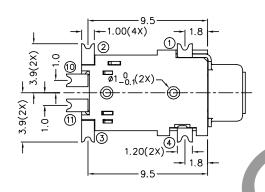


| | MATERIAL | PLATING |
|-------------|--------------|------------|
| terminal 1 | brass | gold flash |
| terminal 2 | copper alloy | silver |
| terminal 3 | copper alloy | silver |
| terminal 4 | copper alloy | silver |
| terminal 10 | brass | silver |
| terminal 11 | brass | silver |
| plastic | PA10T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

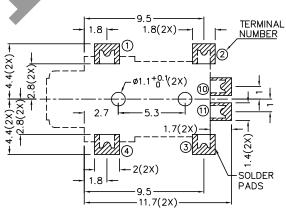




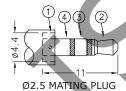








Recommended PCB Layout Top View



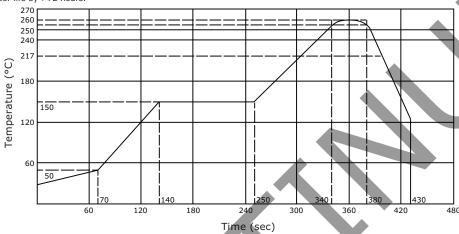
| Model No. | SJ2-25424A-SMT | SJ2-25424B-SMT | SJ2-25424C-SMT | SJ2-25424D-SMT | |
|-----------|----------------------|-----------------------------|-----------------------|------------------------------------|--|
| Schematic | 01 04 03 02 | 01 04 03 010 02 | 01 03 011 02 | 01 04 03 011 010 02 | |
| PIN | | | | | |
| 1 | outer ring | outer ring | outer ring | outer ring | |
| 2 | tip | tip | tip | tip | |
| 3 | ring | ring | ring | ring | |
| 4 | sleeve | sleeve | sleeve | sleeve | |
| 10 | NP | tip switch | NP | tip switch | |
| 11 | NP | NP | ring switch | ring 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 | O 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.

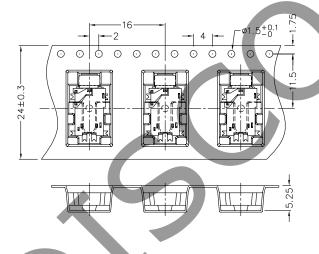


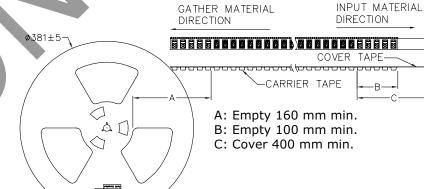
PACKAGING

units: mm

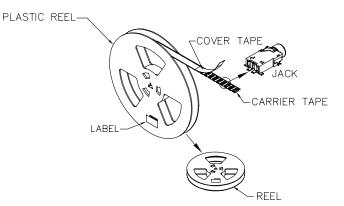
Reel Size: Ø381 mm

Reel QTY: 1,000 pcs per reel





-LABEL



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REVISION HISTORY

| rev. | description | date |
|------|-------------------------------------|------------|
| 1.0 | initial release | 12/07/2016 |
| 1.01 | added storage and drying conditions | 06/07/2017 |
| 1.02 | brand update | 10/04/2019 |

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



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