

**MODEL:** SJ-2504N | **DESCRIPTION:** AUDIO JACK**FEATURES**

- 2.5 mm stereo
- right angle
- through hole
- 3 conductors
- 1 internal switch

**SPECIFICATIONS**

| parameter                       | conditions/description                                           | min | typ   | max | units  |
|---------------------------------|------------------------------------------------------------------|-----|-------|-----|--------|
| rated input voltage             |                                                                  |     | 12    |     | Vdc    |
| rated input current             |                                                                  |     |       | 1   | A      |
| contact resistance <sup>1</sup> | between terminal and contact<br>between terminal and mating plug |     |       | 30  | mΩ     |
|                                 |                                                                  |     |       | 50  | mΩ     |
| insulation resistance           | at 500 Vdc                                                       | 100 |       |     | MΩ     |
| voltage withstand               | for 1 minute                                                     |     |       | 500 | Vac    |
| insertion force                 | when mating with a standard jack                                 | 0.3 |       | 2   | kgf    |
| withdrawal force                | when mating with a standard jack                                 | 0.3 |       | 2   | kgf    |
| operating temperature           |                                                                  | -20 |       | 60  | °C     |
| storage temperature             |                                                                  | -25 |       | 70  | %      |
| life                            |                                                                  |     | 5,000 |     | cycles |
| flammability rating             | UL94V-0                                                          |     |       |     |        |
| RoHS                            | yes                                                              |     |       |     |        |

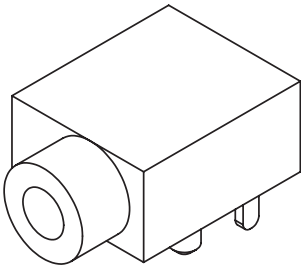
Note: 1. When measured at a current of less than 100 mA/1 kHz  
2. All specifications measured at 5-35°C, humidity at 45-85%, under standard atmospheric pressure, unless otherwise noted.

**SOLDERABILITY**

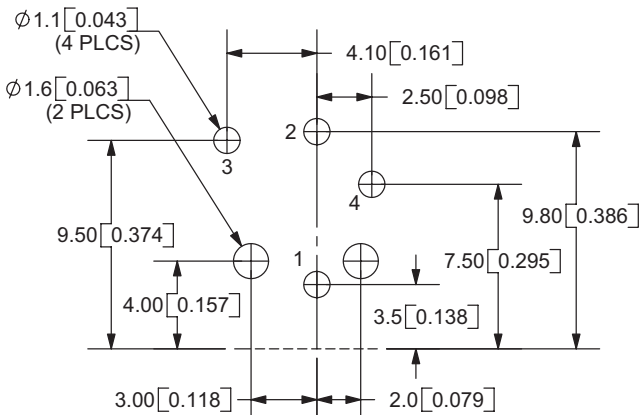
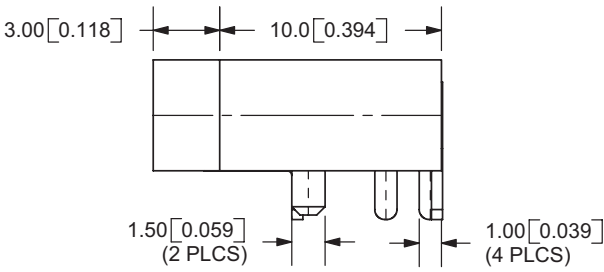
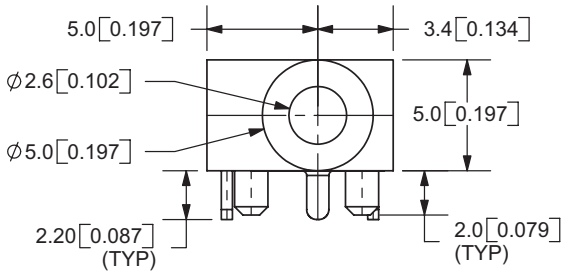
| parameter      | conditions/description | min | typ | max | units |
|----------------|------------------------|-----|-----|-----|-------|
| wave soldering |                        |     |     | 265 | °C    |

MECHANICAL DRAWING

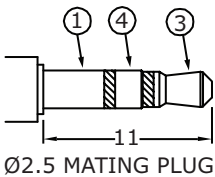
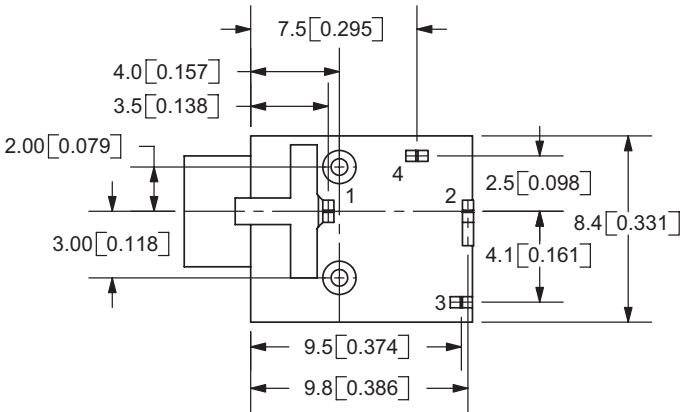
units: mm[inch]  
tolerance:  
X.X ±0.5 mm  
X.XX ±0.3 mm  
X.XXX ±0.15 mm  
PCB: ±0.1 mm



| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|------|-------------|----------|---------------|
| 1    | sleeve      | PBS      | matte tin     |
| 2    | tip shunt   | brass    | matte tin     |
| 3    | tip         | PBS      | matte tin     |
| 4    | ring        | PBS      | matte tin     |
| 5    | housing     | PBT      | black         |



Recommended PCB Layout  
Top View



|           |            |
|-----------|------------|
| Schematic |            |
| PIN       |            |
| 1         | sleeve     |
| 2         | tip switch |
| 3         | tip        |
| 4         | ring       |

REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 12/05/2005 |
| 1.01 | brand update                      | 01/20/2021 |
| 1.02 | CUI Devices rebranded to Same Sky | 09/12/2024 |

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



Same Sky offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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