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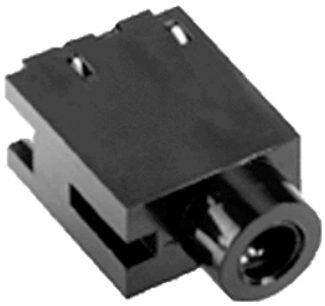
# MODEL: SJ-2509N | DESCRIPTION: AUDIO JACK

## FEATURES

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



RoHS

## SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance[1] | between terminal and contact<br>between terminal and mating plug | | | 30<br>50 | mΩ<br>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 | | | | |

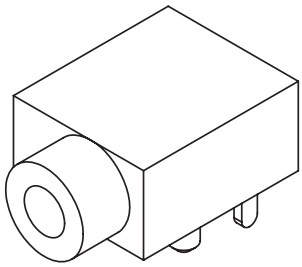
Note:
1. When measured at a current of less than 100 mA/1 kHz
2. All specifications measured at 5~35°C, humidity at 45~85%, under standard atmospheric pressure, unless otherwise noted.

## SOLDERABILITY

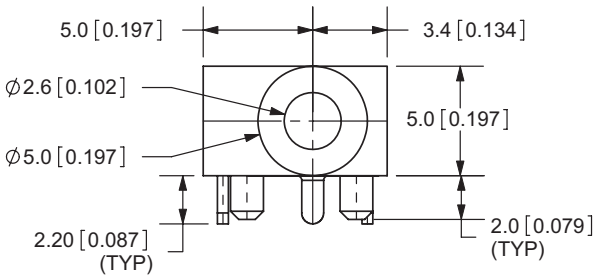
| parameter | conditions/description | min | typ | max | units |
|---|---|---|---|---|---|
| wave soldering | | | | 265 | °C |

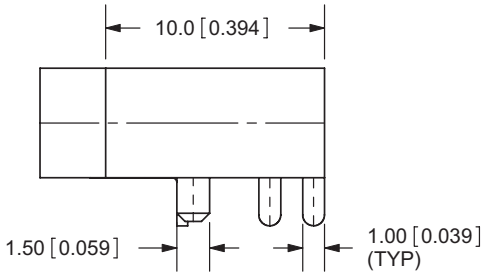
## MECHANICAL DRAWING

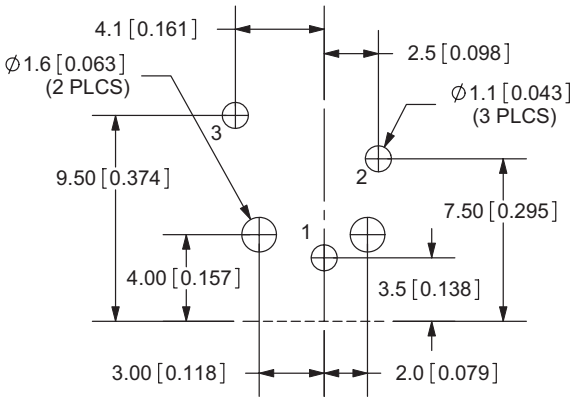
units: mm[inch]
tolerance:
X.X ±0.5 mm
X.XX ±0.3 mm
X.XXX ±0.15 mm
PCB: ±0.1 mm



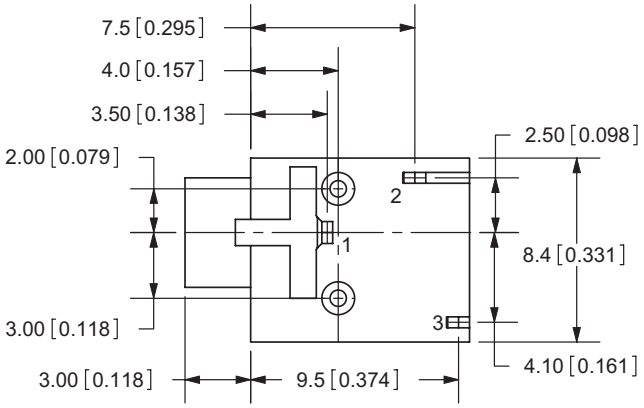
| ITEM | DESCRIPTION | MATERIAL | PLATING/COLOR |
|---|---|---|---|
| 1 | sleeve | PBS | matte tin |
| 2 | tip | PBS | matte tin |
| 3 | ring | PBS | matte tin |
| 4 | housing | PBT | black |

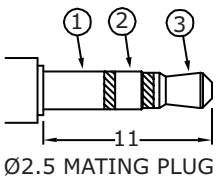


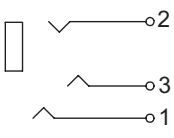




Recommended PCB Layout
Top View




Ø2.5 MATING PLUG

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

## REVISION HISTORY

| rev. | description | date |
|---|---|---|
| 1.0 | initial release | 12/05/2005 |
| 1.01 | added missing dimension | 09/28/2009 |
| 1.02 | brand update | 01/20/2021 |
| 1.03 | 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

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