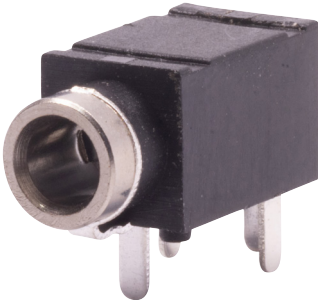


MODEL: SJ1-2503A | DESCRIPTION: AUDIO JACK

FEATURES

- through hole design
- low profile



SPECIFICATIONS

| parameter | conditions/description | min | typ | max | units |
|----------------------------|--------------------------------------|-----|-------|-----|--------|
| rated input voltage | | | 12 | | Vdc |
| rated input current | | | | 1 | A |
| contact resistance | between terminal and mating plug | | | 50 | mΩ |
| | between terminal in a closed circuit | | | 30 | 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 | | | 5,000 | | cycles |
| flammability rating | UL94V-0 | | | | |
| RoHS | yes | | | | |

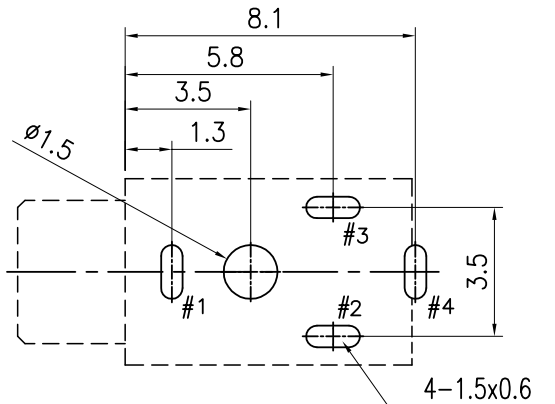
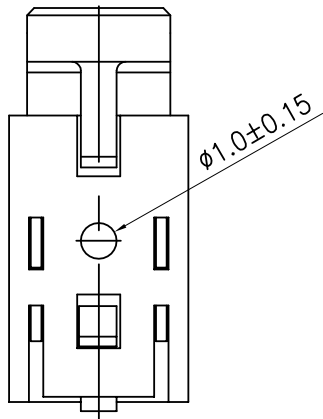
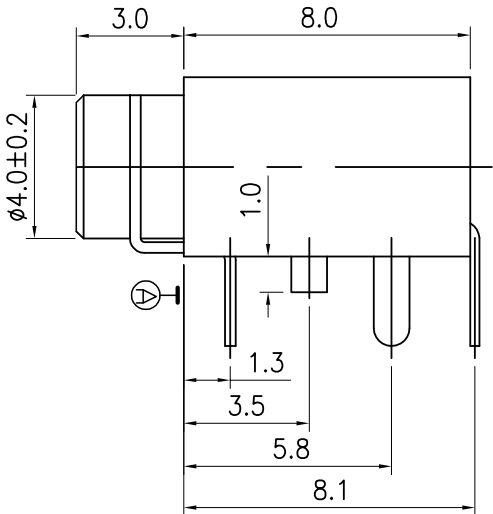
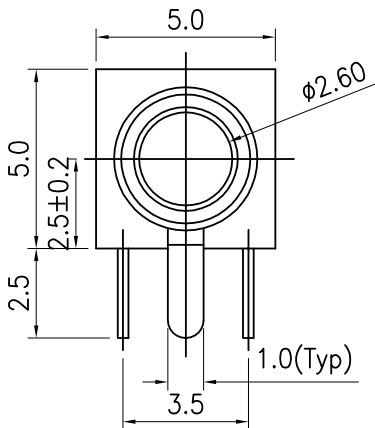
SOLDERABILITY

| parameter | conditions/description | min | typ | max | units |
|----------------|---|-----|-----|-----|-------|
| wave soldering | dipped in solder pot for 5 ±0.5 seconds | 255 | 260 | 265 | °C |

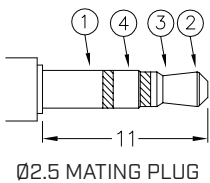
MECHANICAL DRAWING

units: mm
tolerance:
X.X ±0.30 mm
X.XX ±0.25 mm
X.XXX ±0.20 mm
PCB: ±0.05 mm
unless otherwise specified

| DESCRIPTION | MATERIAL | PLATING/COLOR |
|-------------|---------------------------|-----------------|
| terminal 1 | phosphor bronze t=0.30 | tin over nickel |
| terminal 2 | phosphor bronze t=0.30 | tin over nickel |
| terminal 3 | phosphor bronze t=0.30 | tin over nickel |
| terminal 4 | brass t=0.30 | tin over nickel |
| bushing | copper alloy | nickel |
| housing | PA66 [UL94V-0] | black |



Recommended PCB Layout
Top View



| | |
|-----------|-----------|
| Model No. | SJ1-2503A |
| Schematic | |
| PIN | |
| 1 | sleeve |
| 2 | tip |
| 3 | tip |
| 4 | ring |

REVISION HISTORY

| rev. | description | date |
|------|---|------------|
| 1.0 | initial release | 10/27/2005 |
| 1.01 | added dimensions | 11/04/2010 |
| 1.02 | changed terminal plating to silver | 02/13/2019 |
| 1.03 | brand update | 10/03/2019 |
| 1.04 | product reengineered for improved manufacturability and production yield, see PCN for details | 07/07/2023 |
| 1.05 | product reengineered for improved manufacturability and production yield, see PCN for details | 05/29/2024 |
| 1.06 | 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.

Same Sky reserves the right to make changes to the product at any time without notice. Information provided by Same Sky is believed to be accurate and reliable. However, no responsibility is assumed by Same Sky for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

Same Sky products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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