

**MODEL:** PJ-043-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 1.0 mm center pin
- 2.0 A rating
- right angle orientation
- surface mount (SMT)
- shielded
- internal switch

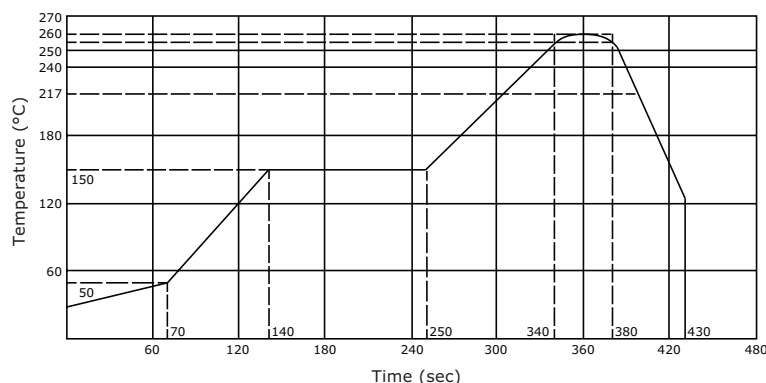
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 2.0 | A      |
| contact resistance         |                        |     |       | 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**

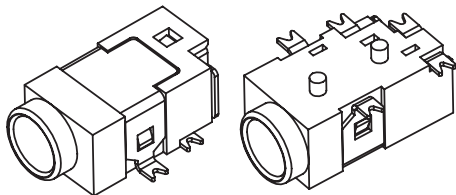
| parameter                      | conditions/description                                                                                   | min | typ | max | units |
|--------------------------------|----------------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage                   | at relative humidity <80%                                                                                |     |     | 40  | °C    |
| reflow soldering <sup>1</sup>  | see reflow profile                                                                                       | 255 | 260 | 265 | °C    |
| drying conditions <sup>2</sup> | parts in reel: bake at 40°C ±5°C for 72 hours<br>parts removed from reel: bake at 40°C ±5°C for 10 hours |     |     |     |       |

Note: 1. Same Sky recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.  
2. When exceeding floor life by >72 hours.

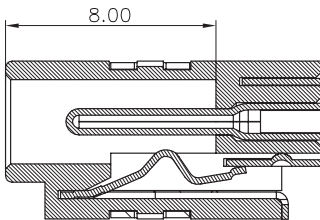
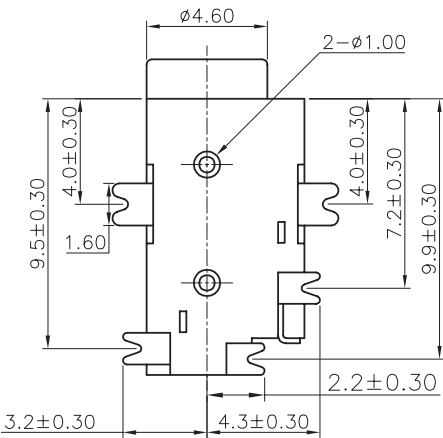
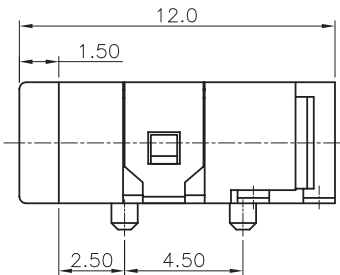
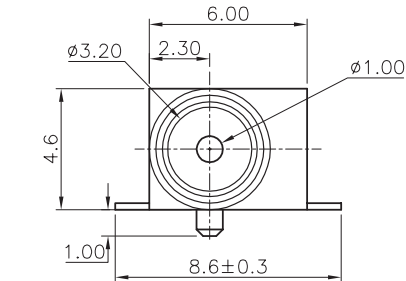


MECHANICAL DRAWING

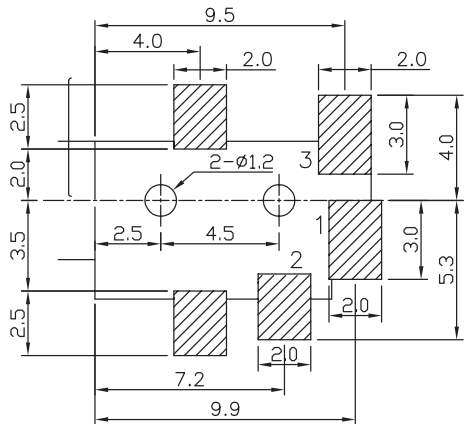
units: mm  
tolerance:  
X, ±0.30 mm  
X.X ±0.25 mm  
X.XX ±0.15 mm  
PCB: ±0.05 mm  
unless otherwise specified



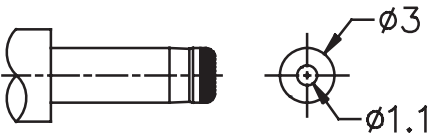
| DESCRIPTION | MATERIAL       | PLATING/COLOR |
|-------------|----------------|---------------|
| center pin  | brass          | tin           |
| terminal 1  | brass t=0.25   | tin           |
| terminal 2  | SUS301 t=0.25  | tin           |
| terminal 3  | brass t=0.25   | tin           |
| shield      | brass t=0.25   | tin           |
| housing     | PA9T (UL94V-0) | black         |



SECTION



Recommended PCB Layout  
Top View



MATING PLUG

Jack Insertion Depth: 8.0mm

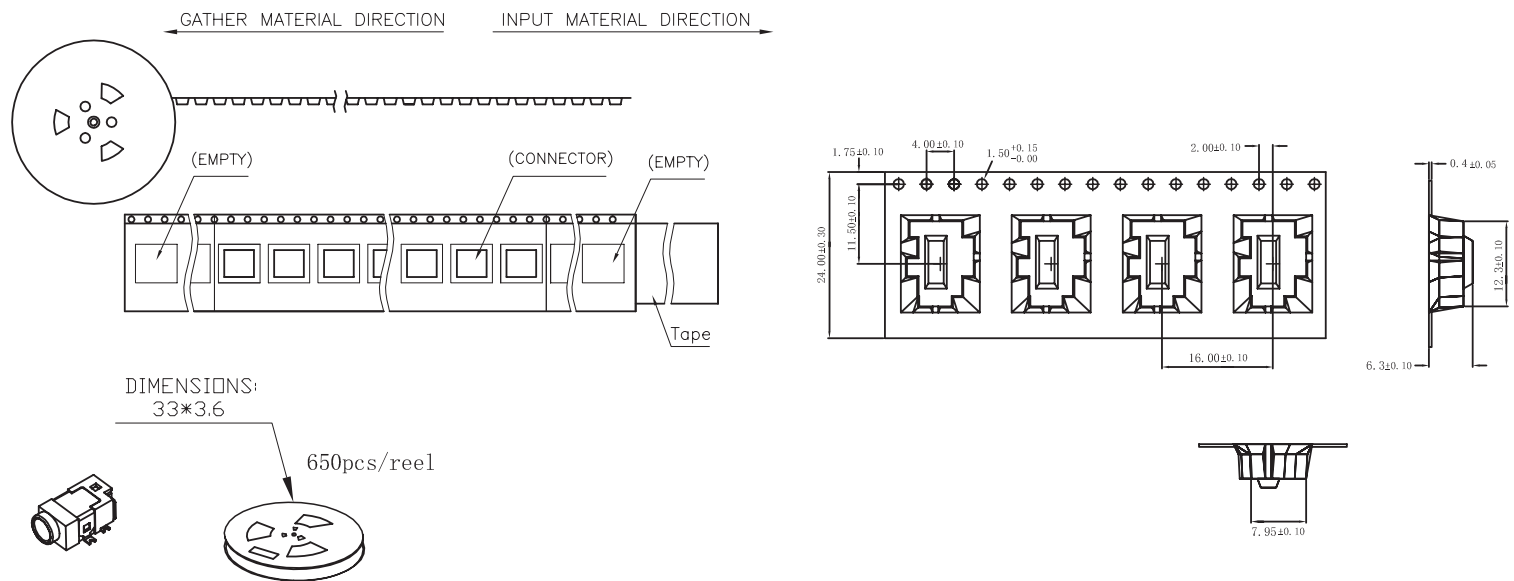
|            |               |
|------------|---------------|
| SCHEMATIC  |               |
| Model      | PJ-043-SMT-TR |
| Center Pin | Ø1.0 mm       |

## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 650 pcs per reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 02/05/2007 |
| 1.01 | added TR package option and jack insertion depth                                              | 11/07/2012 |
| 1.02 | applied new spec template                                                                     | 08/29/2013 |
| 1.03 | increased voltage rating                                                                      | 04/14/2016 |
| 1.04 | added storage and drying conditions, and tape and reel packaging details                      | 08/30/2017 |
| 1.05 | brand update                                                                                  | 10/23/2019 |
| 1.06 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.07 | product reengineered for improved manufacturability and production yield, see PCN for details | 12/14/2022 |
| 1.08 | 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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