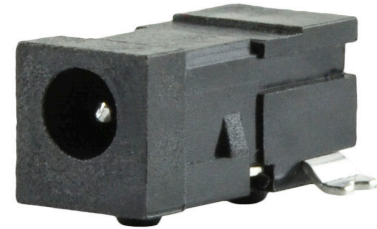


**MODEL:** PJ1-022-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 0.65 mm center pin
- 2.5 A rating
- right angle orientation
- surface mount (SMT)
- internal switch

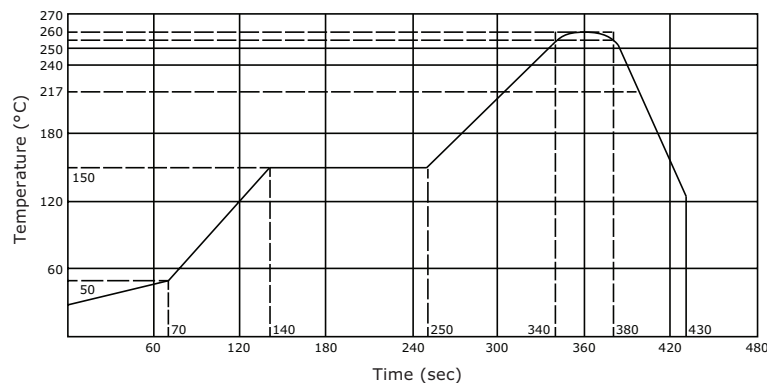
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 2.5 | 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 |     |     |     |       |

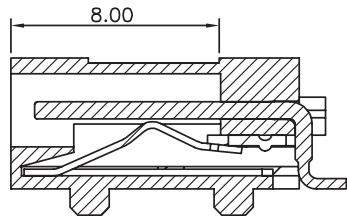
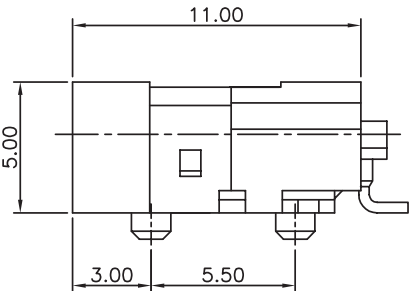
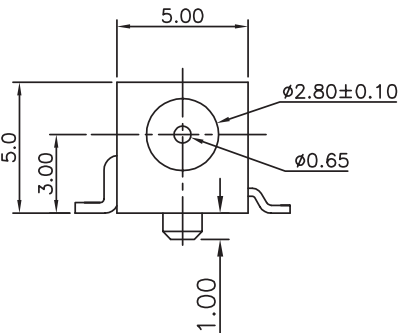
Note: 1. Same Sky recommends to solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <80%.  
2. When exceeding floor life by >72 hours.



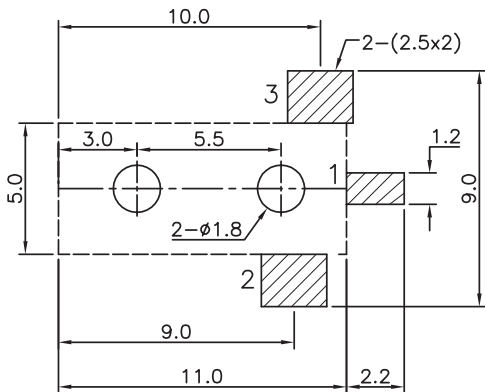
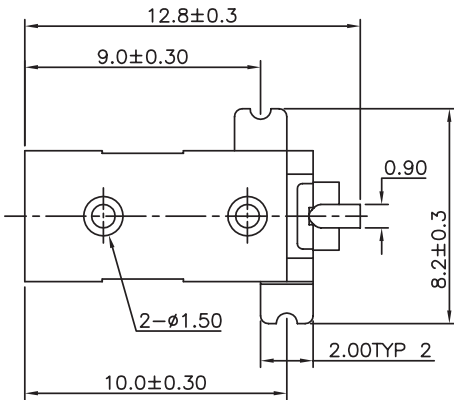
MECHANICAL DRAWING

units: mm  
tolerance:  
X, ±0.50 mm  
X.X ±0.30 mm  
X.XX ±0.20 mm  
X.XXX ±0.10 mm  
PCB: ±0.05 mm  
unless otherwise specified

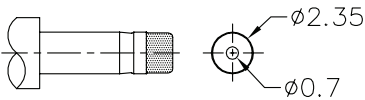
| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| center pin  | bronze          | silver        |
| terminal 1  | bronze          | silver        |
| terminal 2  | SUS301 t=0.25   | silver        |
| terminal 3  | brass t=0.40    | silver        |
| housing     | PA10T (UL94V-0) | black         |



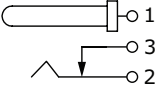
SECTION



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 8.0 mm

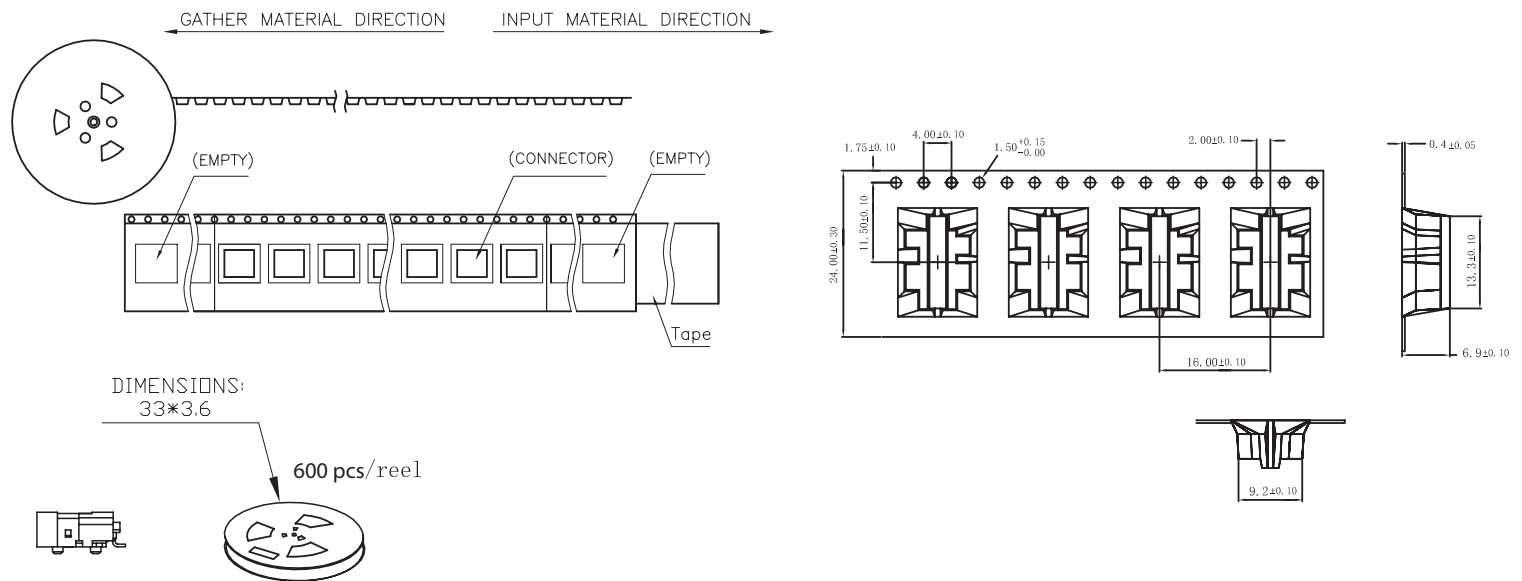
|            |                                                                                     |
|------------|-------------------------------------------------------------------------------------|
| SCHEMATIC  |  |
| Model      | PJ1-022-SMT                                                                         |
| Center Pin | $\phi 0.65 \text{ mm}$                                                              |

## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 600 pcs per reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 10/21/2005 |
| 1.01 | dimensions updated                                                                            | 05/23/2006 |
| 1.02 | added TR package option and jack insertion depth                                              | 11/07/2012 |
| 1.03 | applied new spec template                                                                     | 08/22/2013 |
| 1.04 | increased voltage rating                                                                      | 04/26/2016 |
| 1.05 | added storage and drying conditions, and tape and reel packaging details                      | 07/25/2017 |
| 1.06 | brand update                                                                                  | 10/21/2019 |
| 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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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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