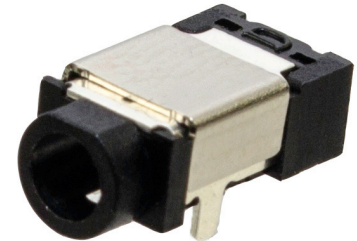


**MODEL:** PJ-039-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

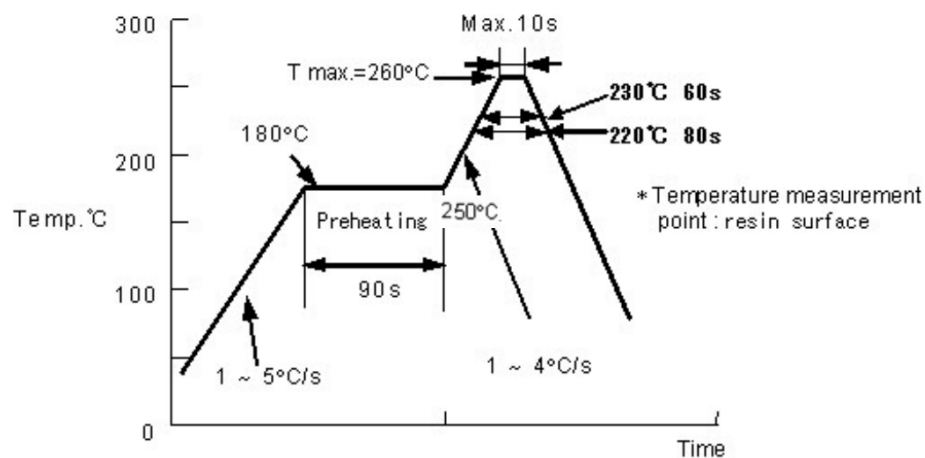
- 0.65 mm center pin
- 1.0 A rating
- right angle orientation
- surface mount (SMT)
- shielded

**SPECIFICATIONS**

| parameter                  | conditions/description                                                   | min | typ   | max      | units    |
|----------------------------|--------------------------------------------------------------------------|-----|-------|----------|----------|
| rated input voltage        |                                                                          |     | 24    |          | Vdc      |
| rated input current        |                                                                          |     |       | 1.0      | A        |
| contact resistance         | between terminal and mating plug<br>between terminal in a closed circuit |     |       | 50<br>30 | mΩ<br>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                                                                      |     |       |          |          |

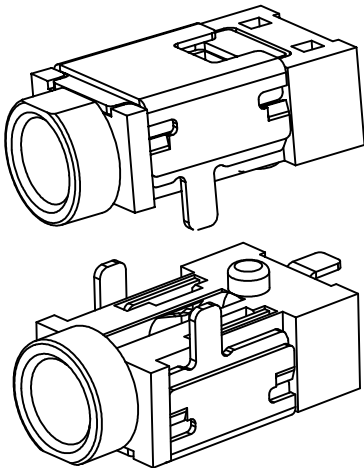
**SOLDERABILITY**

| parameter         | conditions/description    | min | typ | max | units |
|-------------------|---------------------------|-----|-----|-----|-------|
| reel storage      | 5~35°C, <75% humidity     |     |     |     | °C    |
| reflow soldering  | see reflow profile        |     |     | 260 | °C    |
| drying conditions | bake at 120°C for 4 hours |     |     |     |       |

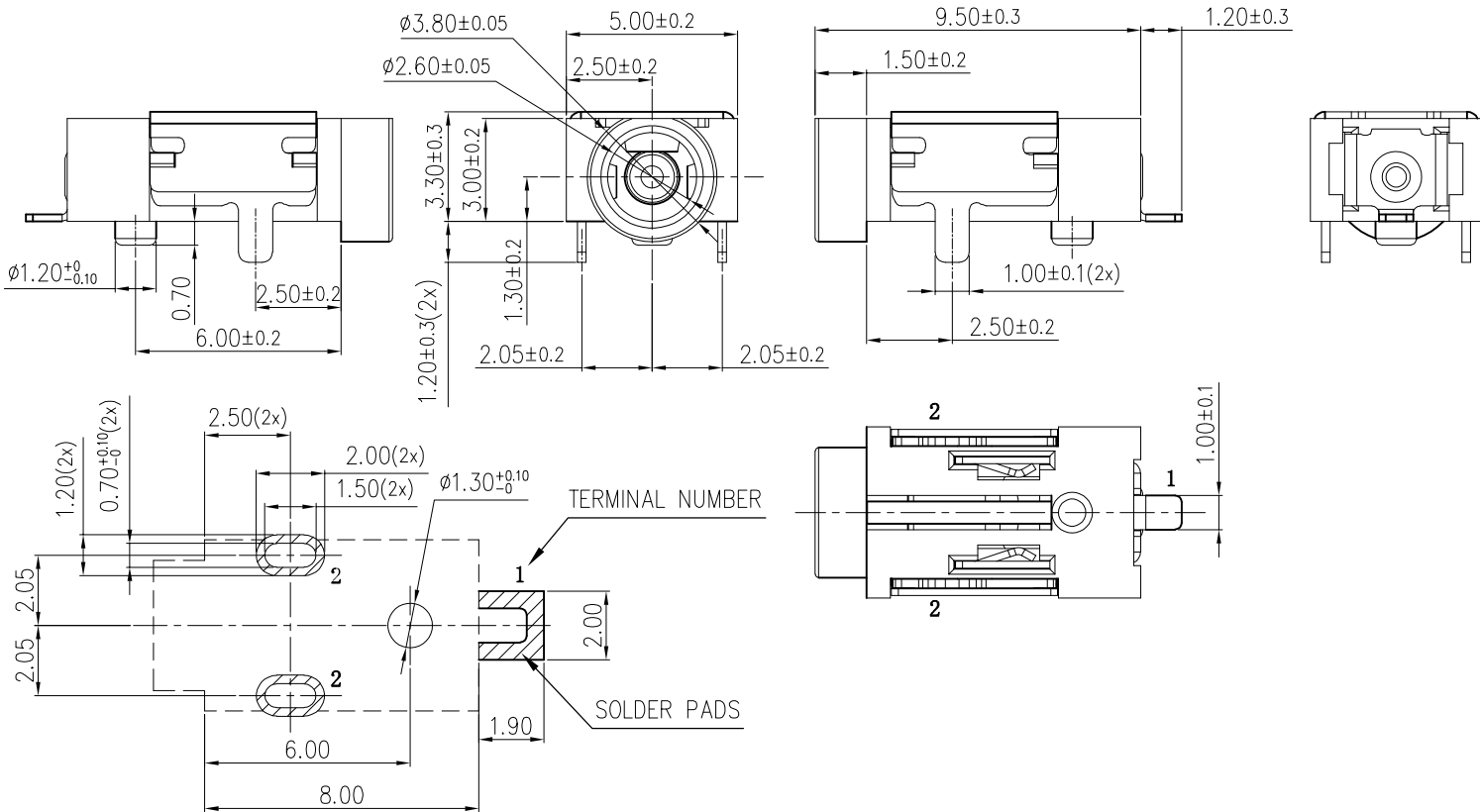
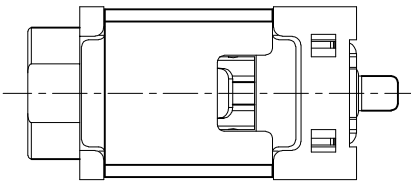


MECHANICAL DRAWING

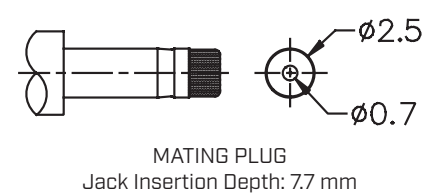
units: mm  
tolerance:  
X.X ±0.30 mm  
X.XX ±0.20 mm  
X.XXX ±0.10 mm  
PCB: ±0.05 mm  
unless otherwise specified

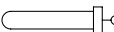
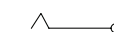


| DESCRIPTION | MATERIAL        | PLATING/COLOR      |
|-------------|-----------------|--------------------|
| center pin  | copper          | nickel             |
| terminal 1  | brass           | silver over nickel |
| terminal 2  | copper alloy    | silver over nickel |
| shield      | copper alloy    | ---                |
| spring      | stainless steel | ---                |
| housing     | PA10T [UL94V-0] | black              |



Recommended PCB Layout  
Top View



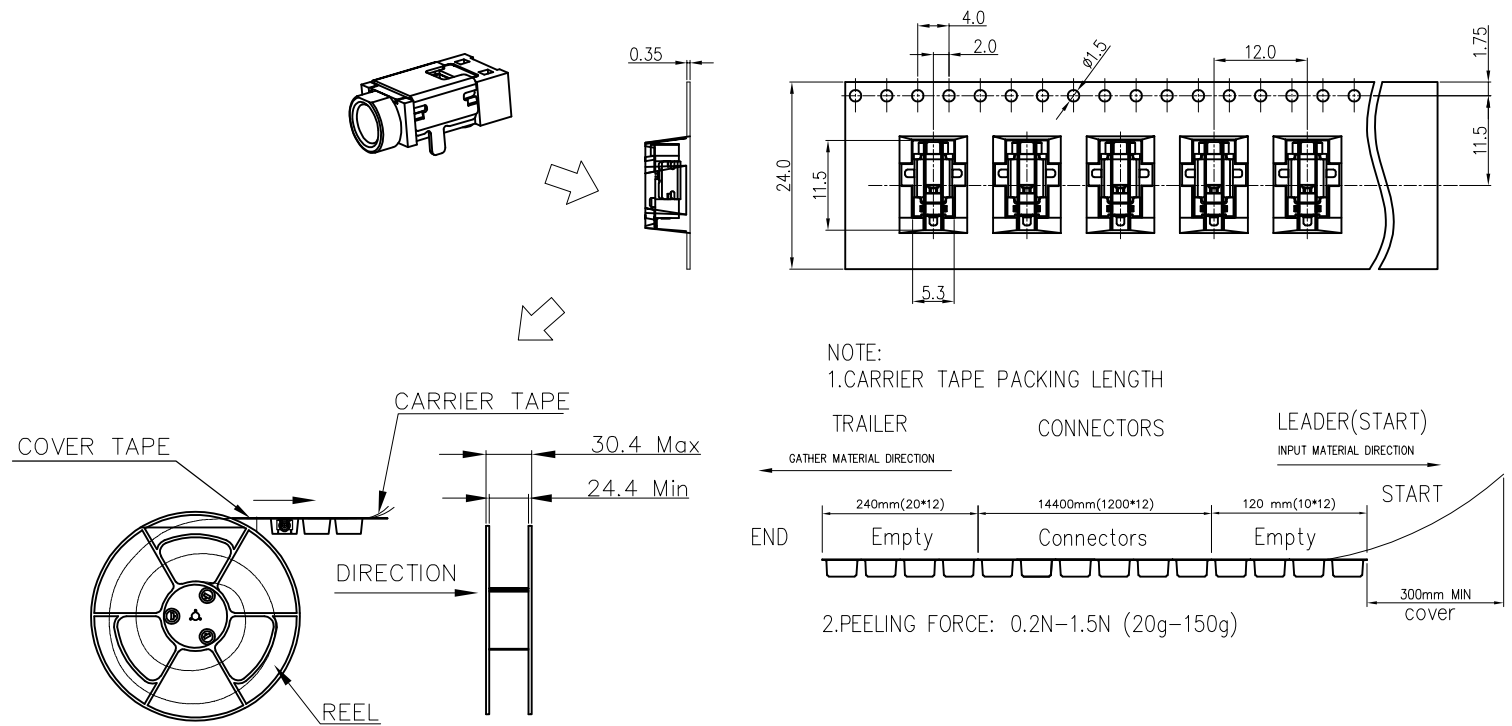
|            |                                                                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SCHEMATIC  |  1<br> 2 |
| Model      | PJ-039-SMT-TR                                                                                                                                                                  |
| Center Pin | Ø0.65 mm                                                                                                                                                                       |

## PACKAGING

units: mm

Reel Size: Ø330 mm

Reel QTY: 1,200 pcs per reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 02/02/2007 |
| 1.01 | added TR package option and jack insertion depth                                              | 11/07/2012 |
| 1.02 | applied new spec template                                                                     | 08/28/2013 |
| 1.03 | increased voltage rating                                                                      | 04/14/2016 |
| 1.04 | changed housing, added storage and drying conditions, and tape and reel pack-aging details    | 01/03/2018 |
| 1.05 | brand update                                                                                  | 10/21/2019 |
| 1.06 | changed shield material to be stainless steel                                                 | 04/02/2020 |
| 1.07 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.08 | product reengineered for improved manufacturability and production yield, see PCN for details | 03/21/2023 |
| 1.09 | CUI Devices rebranded to Same Sky                                                             | 09/12/2024 |
| 1.10 | product reengineered for improved manufacturability and production yield, see PCN for details | 09/19/2024 |

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.

[sameskydevices.com](https://www.sameskydevices.com)