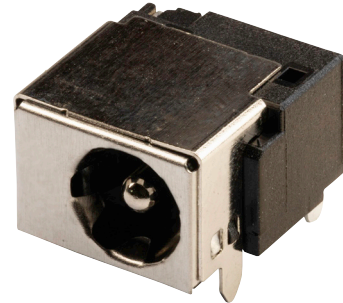


**MODEL:** PJ-085AH | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 2.0 mm center pin
- 5 A rating
- shielded
- through hole
- 1 switch

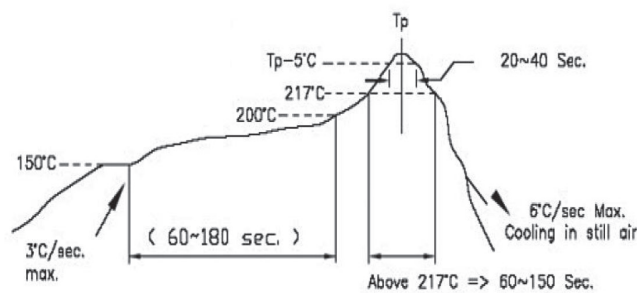
**SPECIFICATIONS**

| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        |                        |     |       | 5.0 | 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 |     |     |     |       |

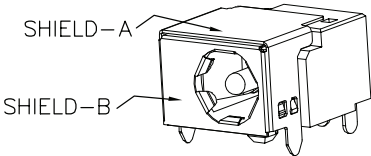
Note: 1. It is recommended to reflow solder within 72 hours from opening vacuum packaging at a temperature <30°C & relative humidity <60%.  
2. When exceeding floor life by >72 hours.



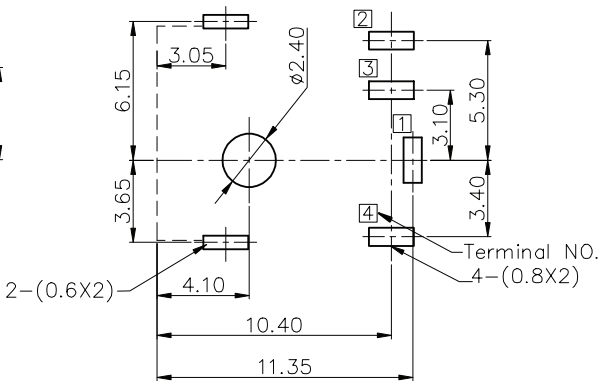
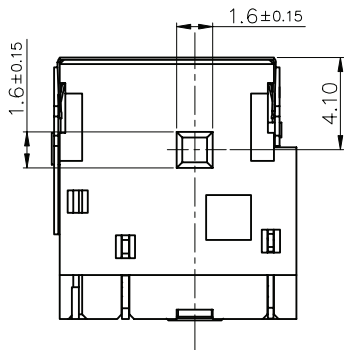
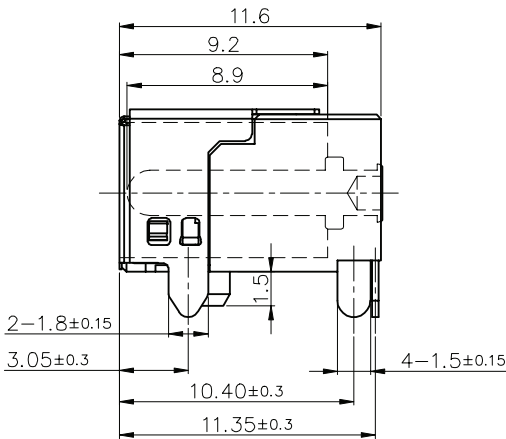
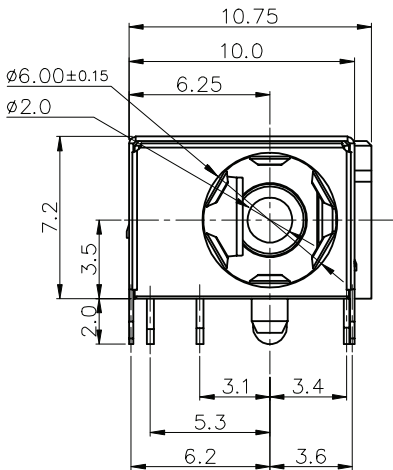
- \* Time 25°C to Peak Temp. ---- 8 Minutes Max.
- \* Time within 5°C of Actual Peak Temp. -- 20~40 Seconds

MECHANICAL DRAWING

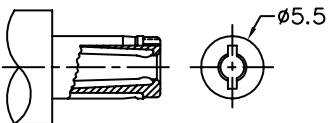
units: mm  
tolerance:  
X.X ±0.50 mm  
X.XX ±0.30 mm  
X.XXX ±0.15 mm  
PCB: ±0.05 mm



| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| center pin  | brass           | nickel        |
| terminal 1  | brass           | silver        |
| terminal 2  | phosphor bronze | silver        |
| terminal 3  | brass           | silver        |
| terminal 4  | phosphor bronze | silver        |
| shield A    | brass           | nickel        |
| shield B    | stainless steel | clean         |
| housing     | PA10T (UL94V-0) | black         |



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 9.2 mm

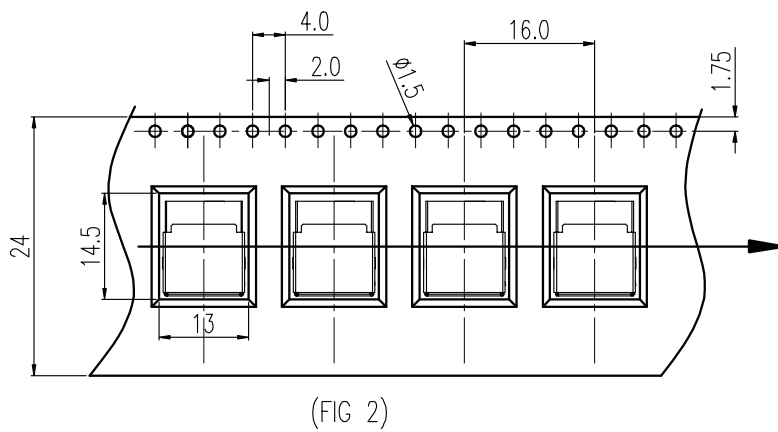
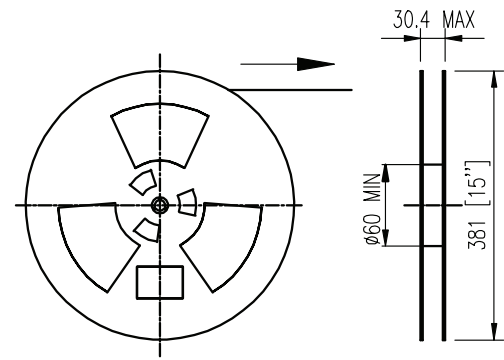
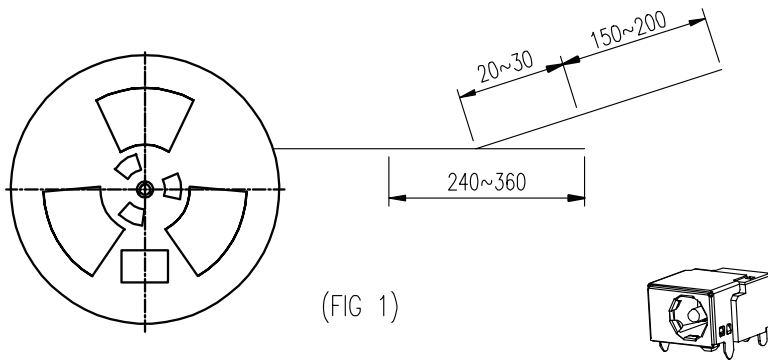
|            |          |
|------------|----------|
| SCHEMATIC  |          |
| Model      | PJ-085AH |
| Center Pin | Ø2.0 mm  |

## PACKAGING

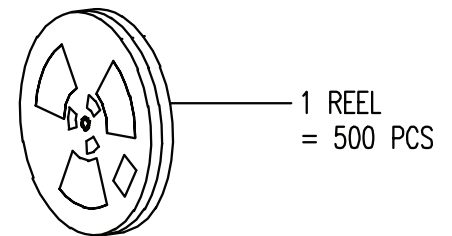
units: mm

Reel Size:  $\varnothing 381$  mm

Reel QTY: 500 pcs per reel



### Reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 12/13/2018 |
| 1.01 | brand update                                                                                  | 10/30/2019 |
| 1.02 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.03 | product reengineered for improved manufacturability and production yield, see PCN for details | 05/19/2023 |
| 1.04 | 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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