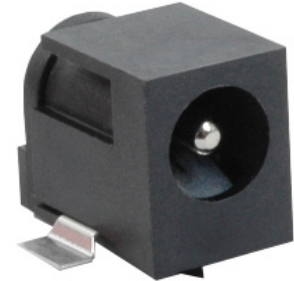


**MODEL:** PJ-036BH-SMT-TR | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 2.5 mm center pin
- 5.0 A rating
- horizontal orientation
- surface mount (SMT)

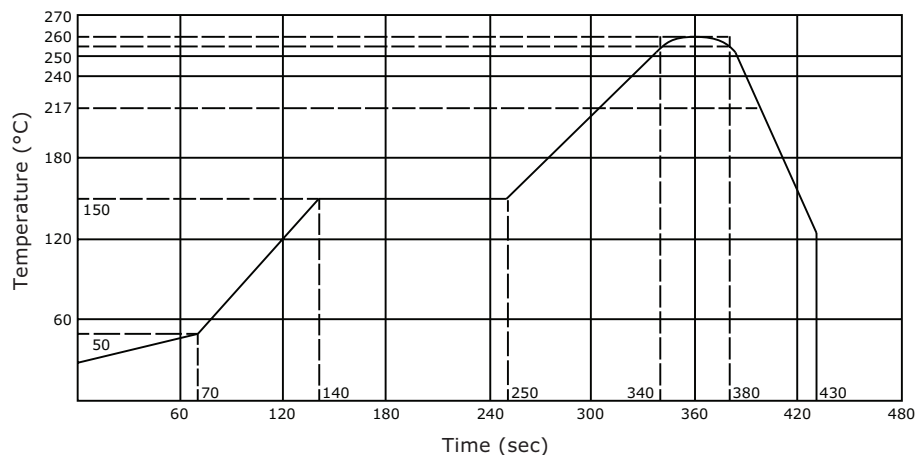
**SPECIFICATIONS**

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

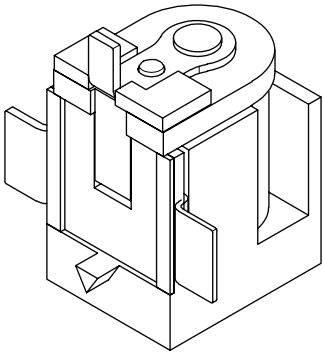
| parameter        | conditions/description                                                                            | min | typ | max | units |
|------------------|---------------------------------------------------------------------------------------------------|-----|-----|-----|-------|
| reel storage     | -5~35°C, 25~80% humidity<br>reel opened: use within 1 month<br>reel unopened: use within 6 months |     |     |     |       |
| reflow soldering | see reflow profile                                                                                |     |     | 260 | °C    |

Note: 1. Same Sky recommends usage of the product within 2 hours after T&R is opened. After 6 hours, Same Sky recommends drying the parts prior to use.

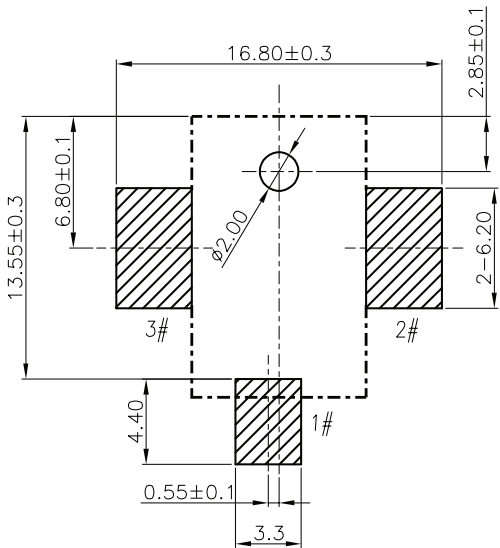
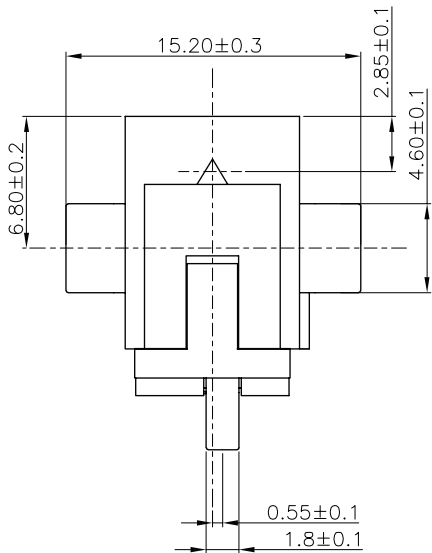
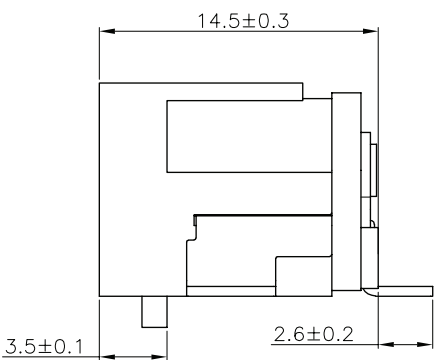
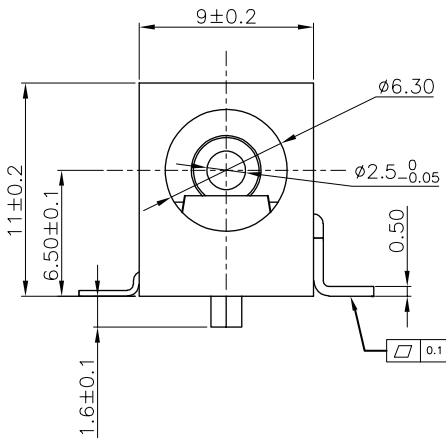


MECHANICAL DRAWING

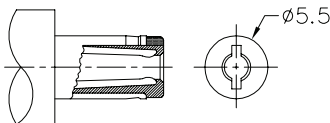
units: mm  
tolerance:  
X.  $\pm 0.50$  mm  
X.X  $\pm 0.30$  mm  
X.XX  $\pm 0.20$  mm  
PCB:  $\pm 0.05$  mm  
unless otherwise specified  
PCB thickness: 1.6 mm



| DESCRIPTION | MATERIAL        | PLATING/COLOR |
|-------------|-----------------|---------------|
| center pin  | copper          | nickel        |
| terminal 1  | brass           | silver        |
| terminal 2  | copper alloy    | silver        |
| terminal 3  | brass           | silver        |
| housing     | PA10T (UL94V-0) | black         |



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 8.9 mm

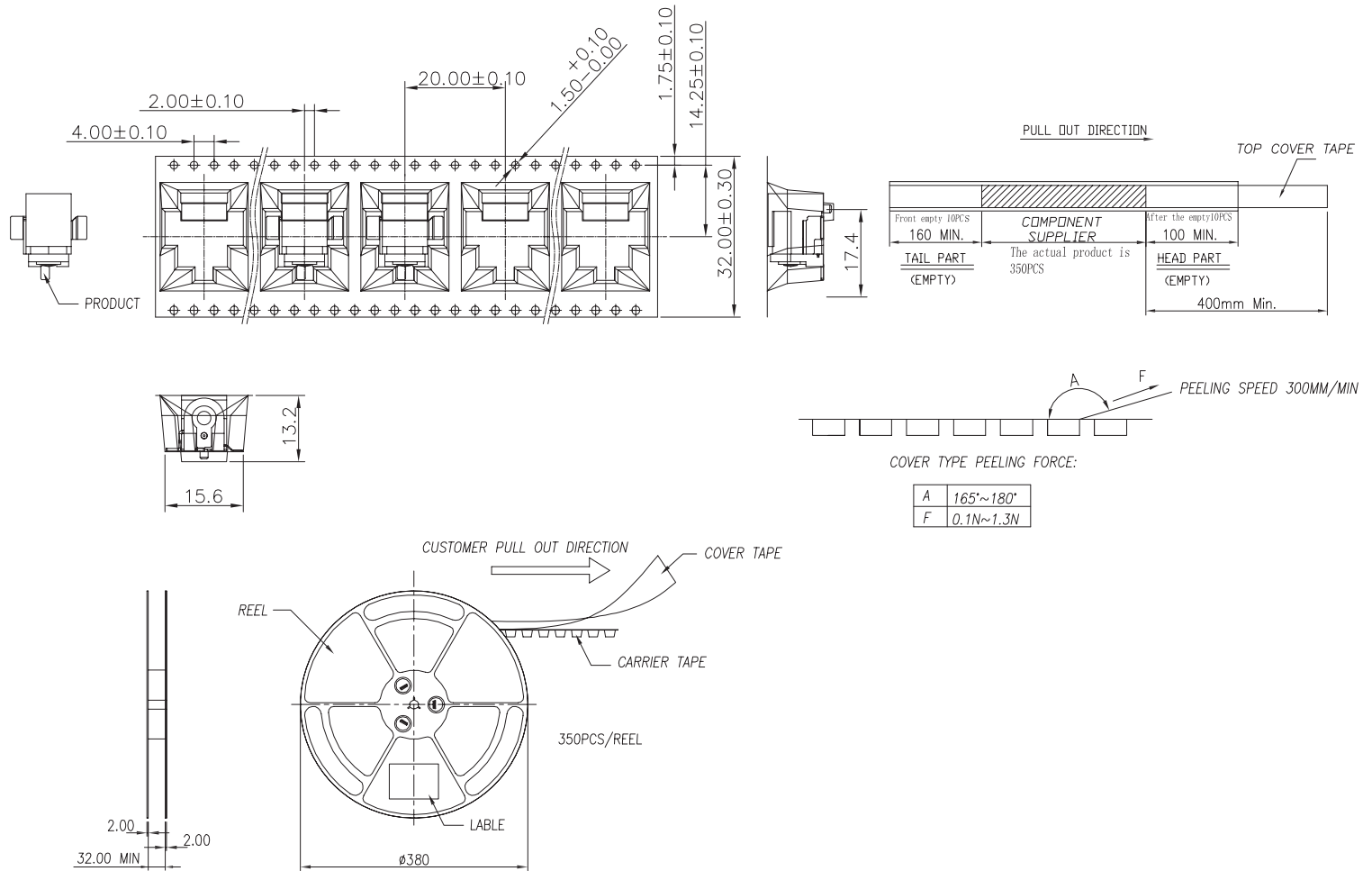
|            |              |
|------------|--------------|
| SCHEMATIC  |              |
| Model      | PJ-036BH-SMT |
| Center Pin | Ø2.5 mm      |

## PACKAGING

units: mm

Reel Size:  $\varnothing 380$  mm

Reel QTY: 350 pcs per reel



REVISION HISTORY

| rev. | description                                                              | date       |
|------|--------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                          | 02/02/2007 |
| 1.01 | added TR package option                                                  | 11/07/2012 |
| 1.02 | applied new spec template, updated center pin material                   | 08/21/2013 |
| 1.03 | increased voltage rating                                                 | 04/14/2016 |
| 1.04 | added storage and drying conditions, and tape and reel packaging details | 10/17/2017 |
| 1.05 | brand update                                                             | 11/06/2019 |
| 1.06 | logo, datasheet style update                                             | 08/05/2022 |
| 1.07 | updated datasheet                                                        | 08/10/2022 |
| 1.08 | modified design                                                          | 04/22/2024 |
| 1.09 | CUI Devices rebranded to Same Sky                                        | 09/12/2024 |
| 1.10 | updated drawing                                                          | 10/09/2024 |
| 1.11 | made housing enhancements                                                | 09/30/2025 |

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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