

**MODEL:** PJ-096H | **DESCRIPTION:** DC POWER JACK**FEATURES**

- 8 A rating
- shielded
- through hole
- 3 conductor
- signal pin

**SPECIFICATIONS**

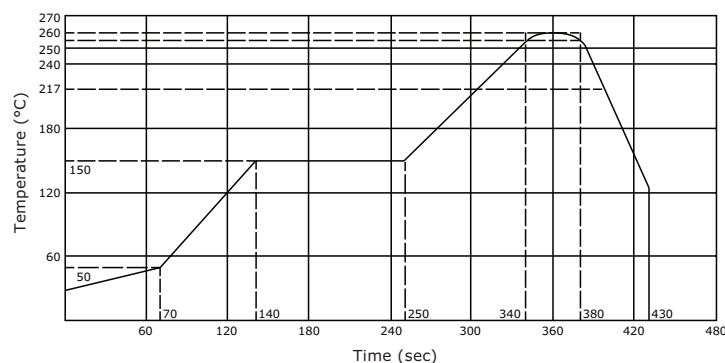
| parameter                  | conditions/description | min | typ   | max | units  |
|----------------------------|------------------------|-----|-------|-----|--------|
| rated input voltage        |                        |     | 24    |     | Vdc    |
| rated input current        | power pin              |     |       | 8.0 | A      |
|                            | signal pin             |     |       | 1.0 | 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 |     |     |     |       |

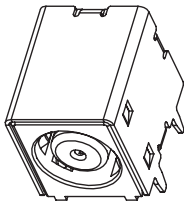
Note:

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.

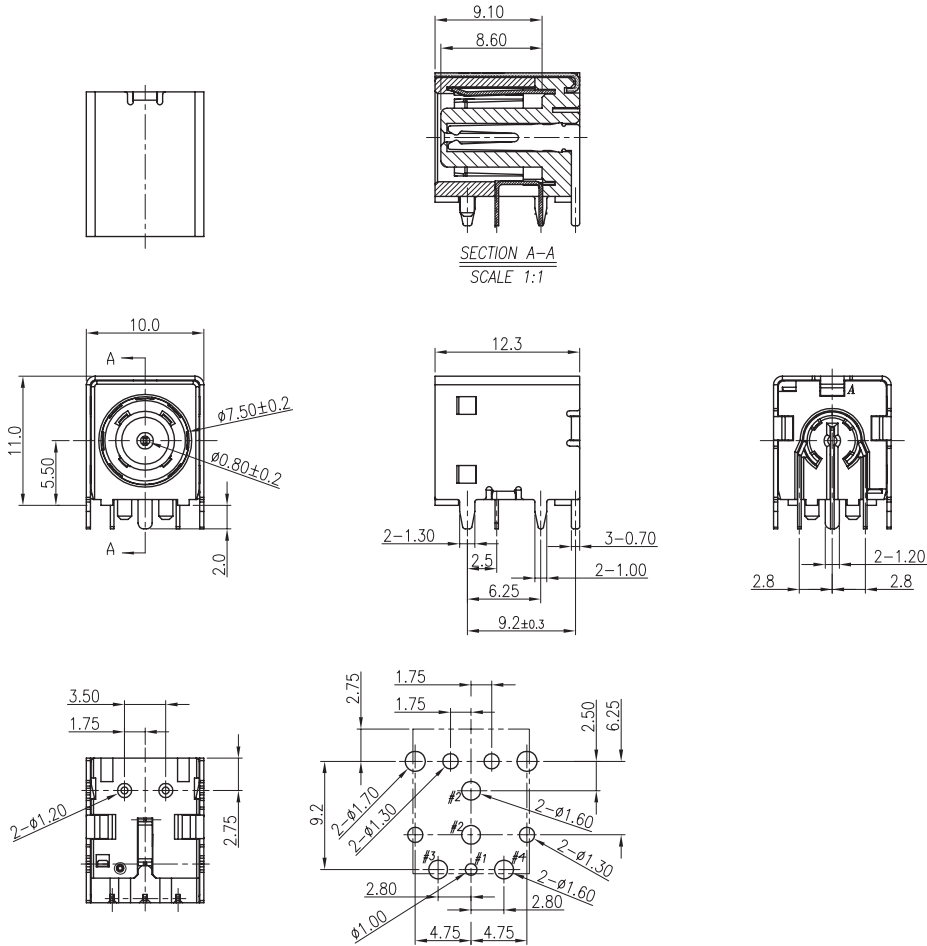


MECHANICAL DRAWING

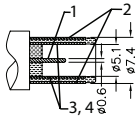
units: mm  
tolerance:  
X, ±0.50 mm  
X.X ±0.30 mm  
X.XX ±0.20 mm  
X.XXX ±0.10 mm  
PCB: ±0.05 mm



| DESCRIPTION | MATERIAL            | PLATING/COLOR          |
|-------------|---------------------|------------------------|
| terminal 1  | copper alloy t=0.30 | gold flash over nickel |
| terminal 2  | copper alloy t=0.30 | gold flash over nickel |
| terminal 3  | copper alloy t=0.30 | gold flash over nickel |
| terminal 4  | copper alloy t=0.30 | gold flash over nickel |
| shield      | brass t=0.35        | nickel                 |
| insulator   | LCP (UL94V-0)       | black                  |



Recommended PCB Layout  
Top View



MATING PLUG  
Jack Insertion Depth: 9.1 mm

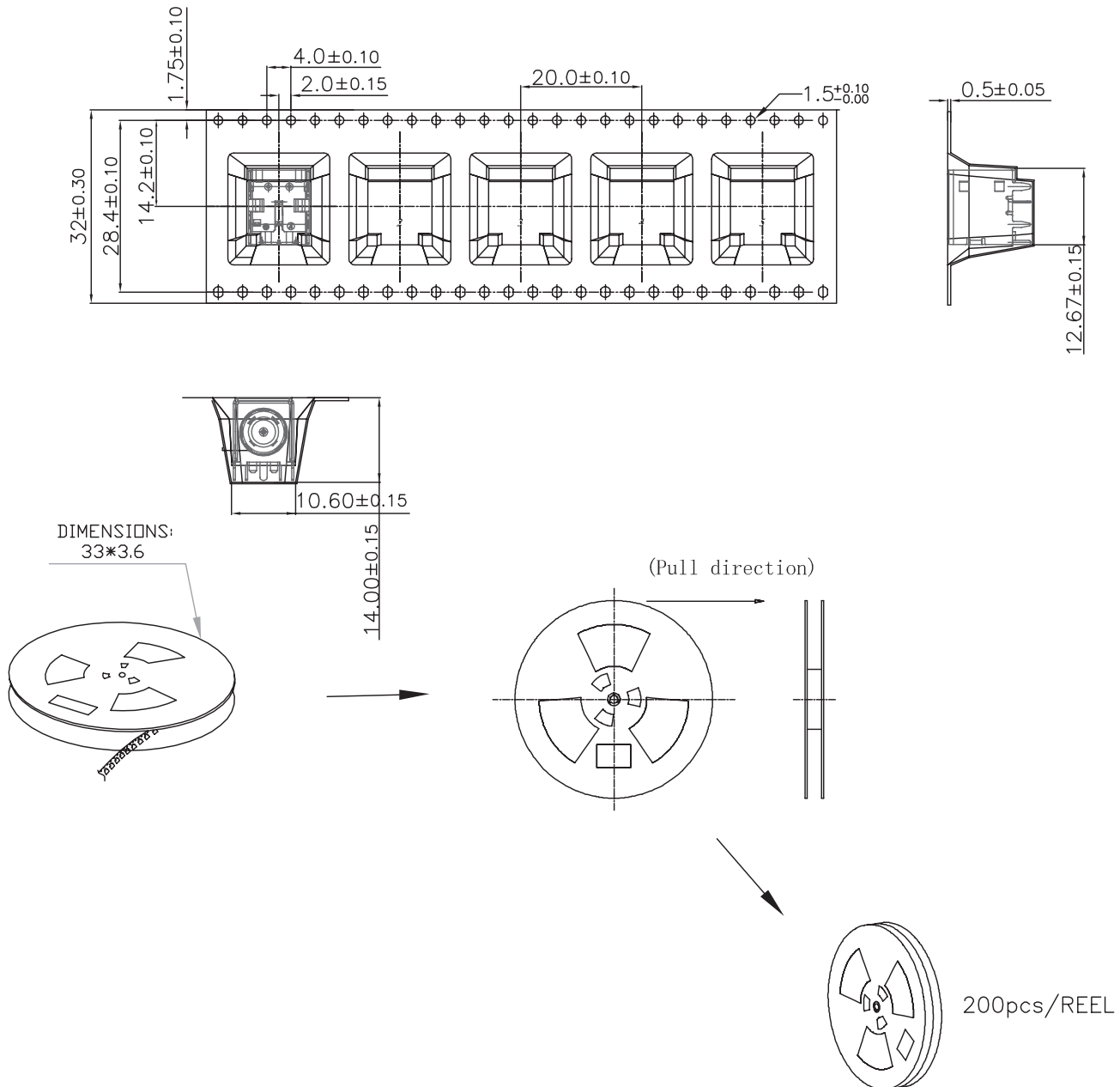
| SCHEMATIC  |              |
|------------|--------------|
| Model      | PJ-096H      |
| terminal 1 | signal pin   |
| terminal 2 | outer sleeve |
| terminal 3 | inner sleeve |
| terminal 4 | inner sleeve |

## PACKAGING

units: mm

Reel Size:  $\varnothing 330$  mm

Reel QTY: 200 pcs per reel



REVISION HISTORY

| rev. | description                                                                                   | date       |
|------|-----------------------------------------------------------------------------------------------|------------|
| 1.0  | initial release                                                                               | 12/17/2018 |
| 1.01 | brand update                                                                                  | 11/06/2019 |
| 1.02 | logo, datasheet style update                                                                  | 08/05/2022 |
| 1.03 | product reengineered for improved manufacturability and production yield, see PCN for details | 01/18/2023 |
| 1.04 | CUI Devices rebranded to Same Sky                                                             | 09/12/2024 |
| 1.05 | updated datasheet                                                                             | 11/05/2024 |

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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