

**SERIES:** PTN06 | **DESCRIPTION:** TRIMMER POTENTIOMETER**FEATURES**

- 6 mm
- carbon element
- dust proof enclosure
- multiple rotor options
- linear, logarithmic, and reverse logarithmic tapers

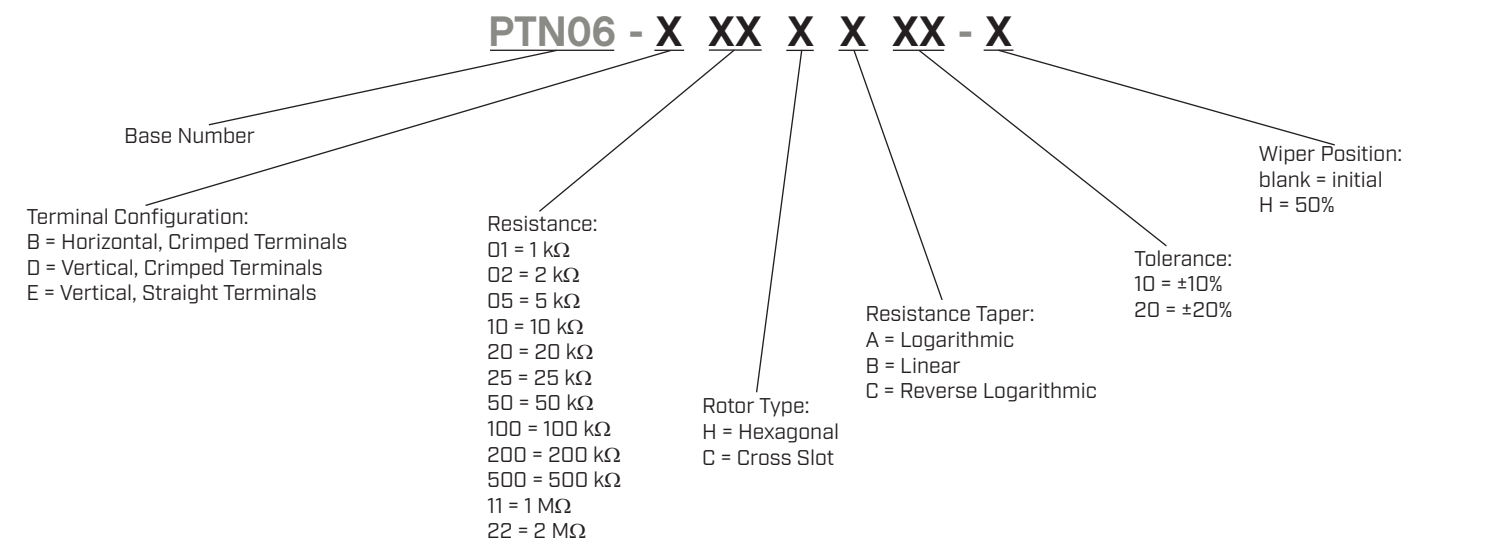
**SPECIFICATIONS**

| parameter                     | conditions/description                         | min | typ | max   | units      |
|-------------------------------|------------------------------------------------|-----|-----|-------|------------|
| maximum operating voltage     |                                                |     |     | 200   | Vdc        |
| power rating                  | at 70°C                                        |     |     | 0.15  | W          |
| taper                         | linear, logarithmic, and reverse logarithmic   |     |     |       |            |
| standard resistance range     | see Resistance Table                           | 1.0 |     | 2,000 | k $\Omega$ |
| standard resistance tolerance | $\pm 10\%$ or $\pm 20\%$ , see Part Number Key |     |     |       |            |
| residual resistance           |                                                |     |     | 10    | $\Omega$   |
| sliding noise                 |                                                |     |     | 68    | mV         |
| operating temperature         |                                                | -10 |     | 70    | °C         |
| hand soldering                | for 3 seconds max                              |     |     | 350   | °C         |
| wave soldering                | for 5 $\pm$ 1 seconds                          | 255 | 260 | 265   | °C         |
| RoHS                          | yes                                            |     |     |       |            |

**MECHANICAL**

| parameter         | conditions/description | min  | typ   | max    | units  |
|-------------------|------------------------|------|-------|--------|--------|
| mechanical angle  |                        | 225  | 235   | 245    | °      |
| rotational torque |                        | 10   |       | 80     | gf-cm  |
| stop strength     |                        | 400  |       |        | gf-cm  |
| rotational life   |                        |      |       | 10,000 | cycles |
| weight            |                        | 0.18 | 0.185 | 0.19   | g      |

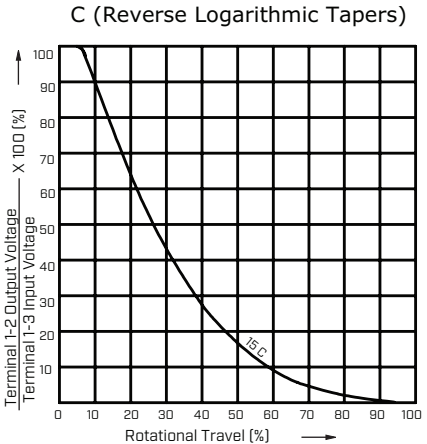
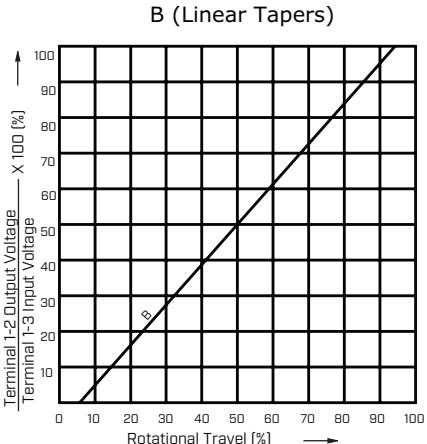
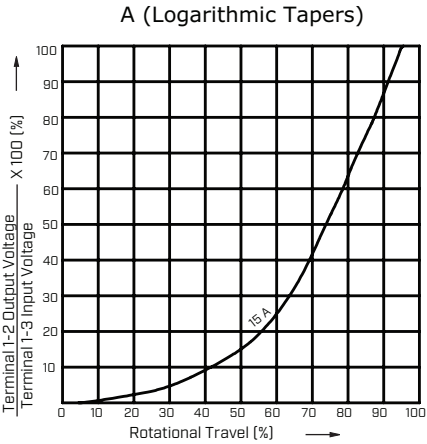
PART NUMBER KEY



SCHEMATIC/TAPERS

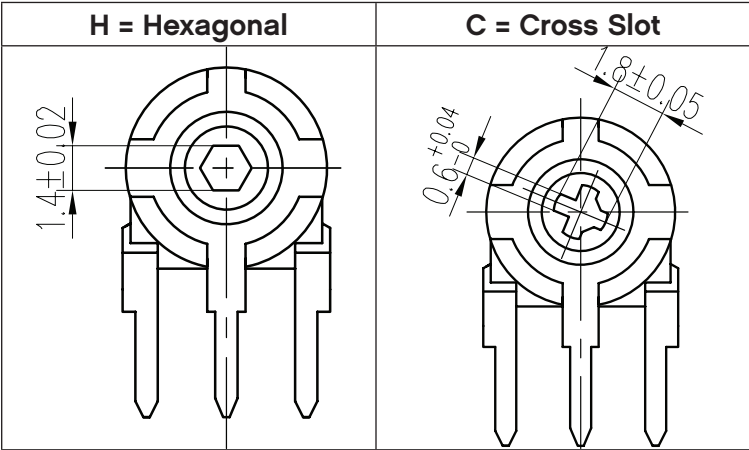


| Resistance Table |      |
|------------------|------|
| Resistance (KΩ)  | Code |
| 1                | 01   |
| 2                | 02   |
| 5                | 05   |
| 10               | 10   |
| 20               | 20   |
| 25               | 25   |
| 50               | 50   |
| 100              | 100  |
| 200              | 200  |
| 500              | 500  |
| 1,000            | 11   |
| 2,000            | 22   |



ROTOR TYPE

units: mm  
tolerance:  $\pm 0.3$  mm  
unless otherwise noted

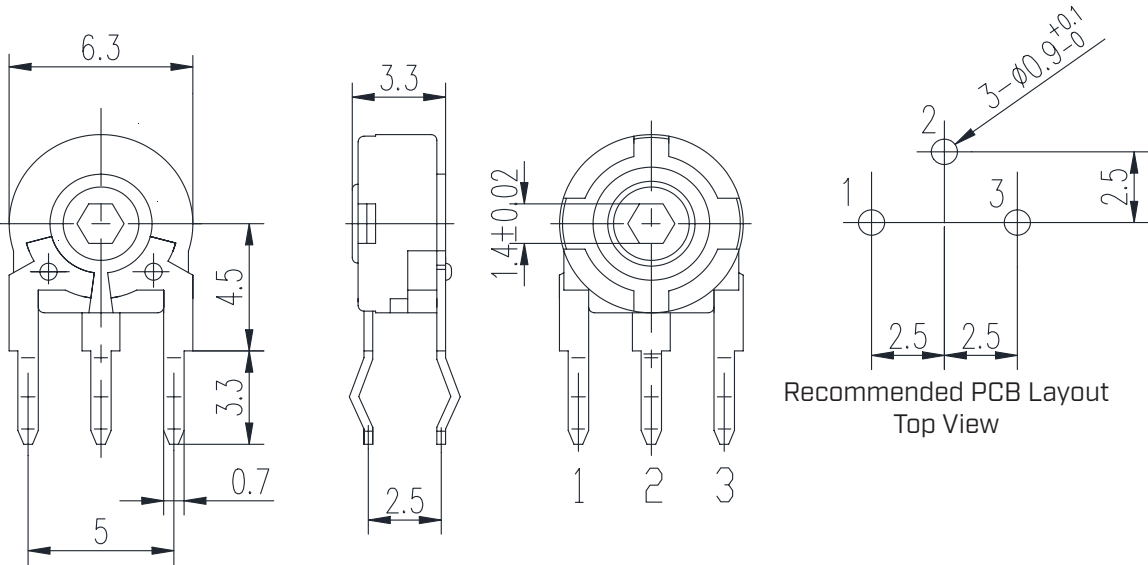


MECHANICAL DRAWING (HORIZONTAL, CRIMPED TERMINALS)

units: mm  
tolerance:  
 $X \leq 10$ :  $\pm 0.3$  mm  
 $10 < X \leq 30$ :  $\pm 0.5$  mm  
 $30 < X \leq 100$ :  $\pm 1.0$  mm  
unless otherwise noted

| ITEM | DESCRIPTION | MATERIAL     | PLATING/COLOR |
|------|-------------|--------------|---------------|
| A    | housing     | PA6 (UL94HB) | black         |
| B    | terminals   | steel        | tin           |
| C    | reed        | zinc         | cupronickel   |

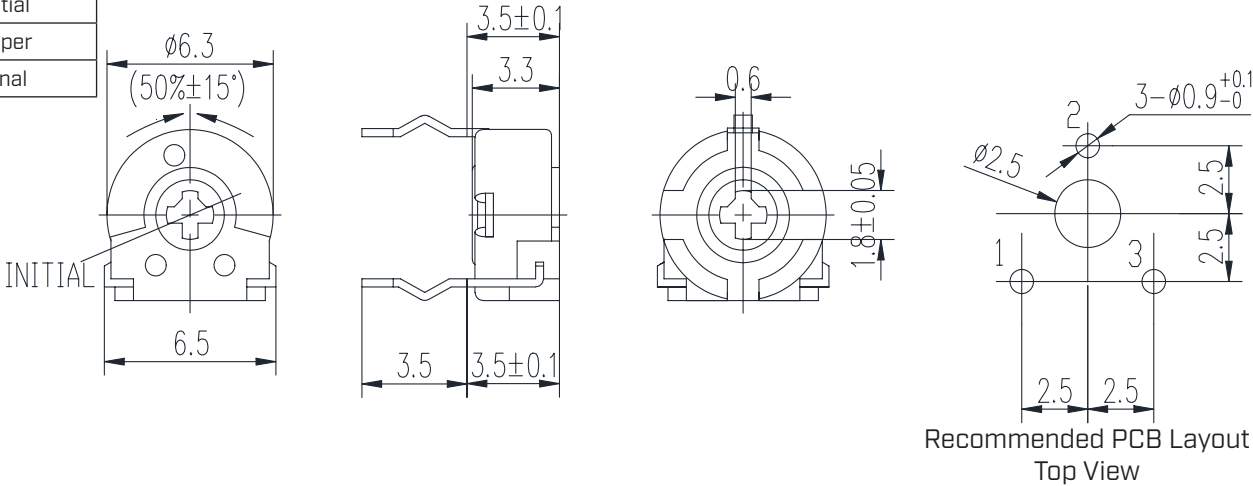
| TERMINAL CONNECTIONS |             |
|----------------------|-------------|
| TERMINAL             | DESCRIPTION |
| 1                    | Initial     |
| 2                    | Wiper       |
| 3                    | Final       |



MECHANICAL DRAWING (VERTICAL, CRIMPED TERMINALS)

units: mm  
tolerance:  
X≤10: ±0.3 mm  
10<X≤30: ±0.5 mm  
30<X≤100: ±1.0 mm  
unless otherwise noted

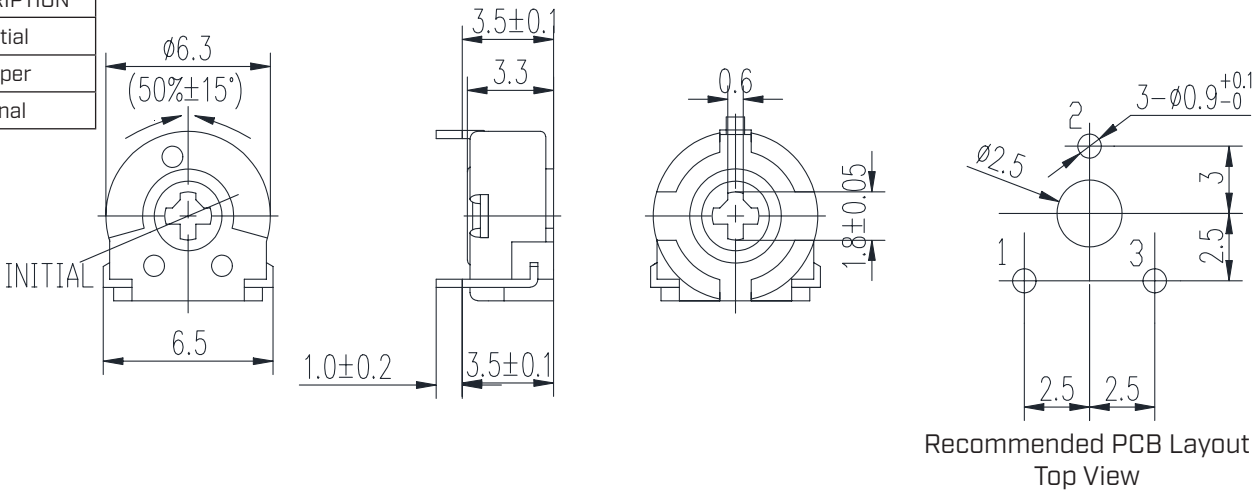
| TERMINAL CONNECTIONS |             |
|----------------------|-------------|
| TERMINAL             | DESCRIPTION |
| 1                    | Initial     |
| 2                    | Wiper       |
| 3                    | Final       |



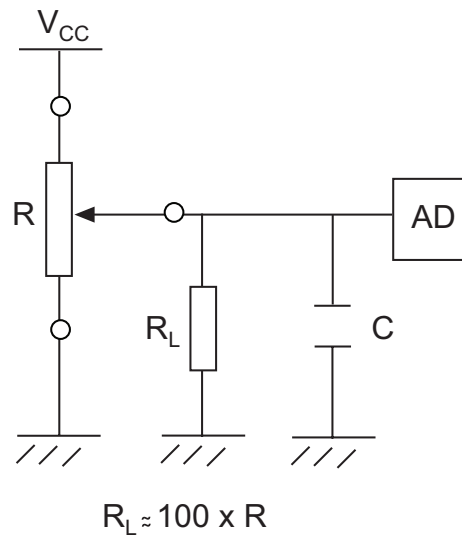
MECHANICAL DRAWING (VERTICAL, STRAIGHT TERMINALS)

units: mm  
tolerance:  
X≤10: ±0.3 mm  
10<X≤30: ±0.5 mm  
30<X≤100: ±1.0 mm  
unless otherwise noted

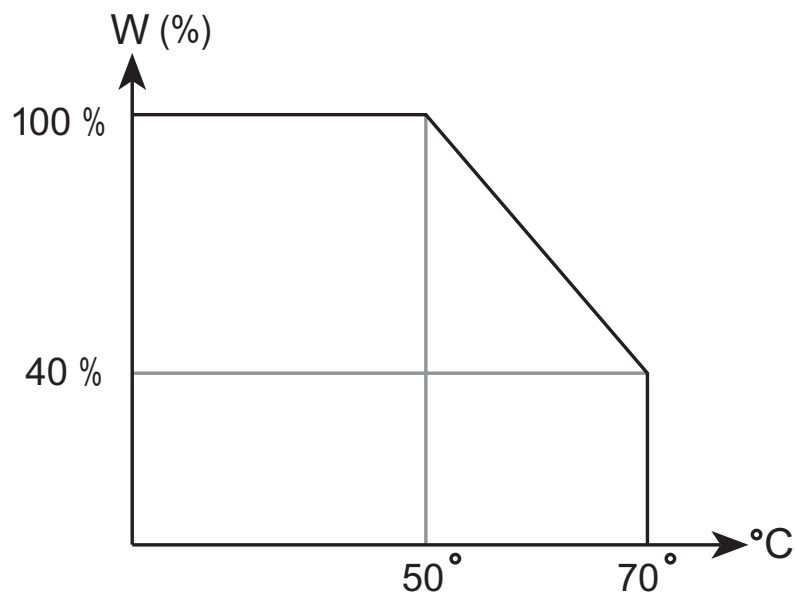
| TERMINAL CONNECTIONS |             |
|----------------------|-------------|
| TERMINAL             | DESCRIPTION |
| 1                    | Initial     |
| 2                    | Wiper       |
| 3                    | Final       |



## RECOMMENDED CIRCUIT



## POWER DERATING CURVE



REVISION HISTORY

| rev. | description                       | date       |
|------|-----------------------------------|------------|
| 1.0  | initial release                   | 10/27/2022 |
| 1.01 | updated taper detail              | 01/15/2024 |
| 1.02 | updated datasheet                 | 04/16/2024 |
| 1.03 | 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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