CUI Devices is now Same Sky! Learn More

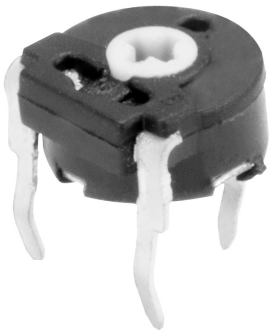
same sky

Additional Resources: Product Page | 3D Model | PCB Footprint

SERIES: PTN06 | DESCRIPTION: TRIMMER POTENTIOMETER

FEATURES

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



RoHS

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	kΩ
standard resistance tolerance	±10% or ±20%, see Part Number Key				
residual resistance				10	Ω
sliding noise				68	mV
operating temperature		-10		70	°C
hand soldering	for 3 seconds max			350	°C
wave soldering	for 5±1 seconds	255	260	265	°C
RoHS	yes				

MECHANICAL

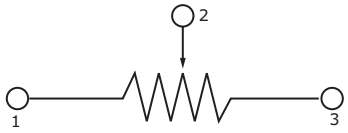
parameter	conditions/description	min	typ	max	units
mechanical angle		225	235	245	°
rotational torque		10		80	gf-cm
stop strength		400			gf-cm
rotational life				10,000	cycles
weight		0.18	0.185	0.19	g

PART NUMBER KEY

PTN06 - X XX X X XX - X

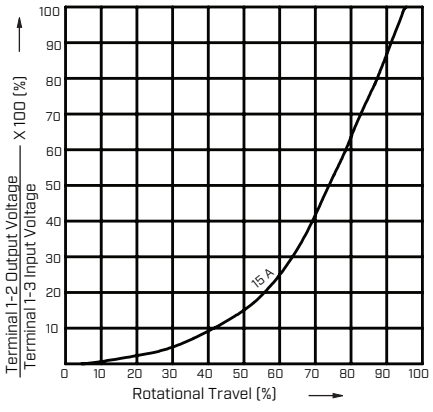
- Base Number: PTN06
- Terminal Configuration: B = Horizontal, Crimped Terminals; D = Vertical, Crimped Terminals; E = Vertical, Straight Terminals
- Resistance: 01 = 1 kΩ; 02 = 2 kΩ; 05 = 5 kΩ; 10 = 10 kΩ; 20 = 20 kΩ; 25 = 25 kΩ; 50 = 50 kΩ; 100 = 100 kΩ; 200 = 200 kΩ; 500 = 500 kΩ; 11 = 1 MΩ; 22 = 2 MΩ
- Rotor Type: H = Hexagonal; C = Cross Slot
- Resistance Taper: A = Logarithmic; B = Linear; C = Reverse Logarithmic
- Tolerance: 10 = ±10%; 20 = ±20%
- Wiper Position: blank = initial; H = 50%

SCHEMATIC/TAPERS

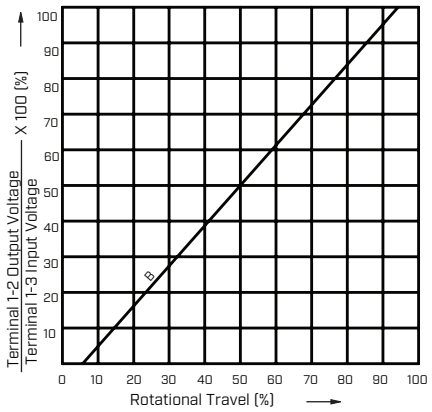


Resistance Table	
Resistance (KΩ)	Code
1	01
2	02
5	05
10	10
20	20
25	25
50	50
100	100
200	200
500	500
1,000	11
2,000	22

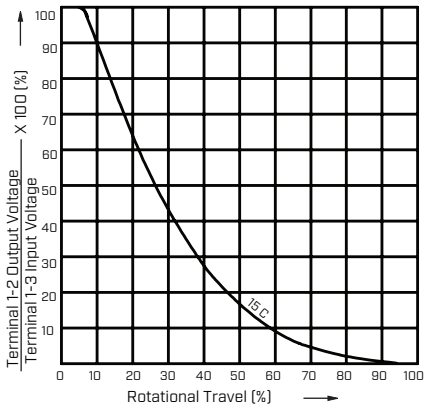
A (Logarithmic Tapers)



B (Linear Tapers)

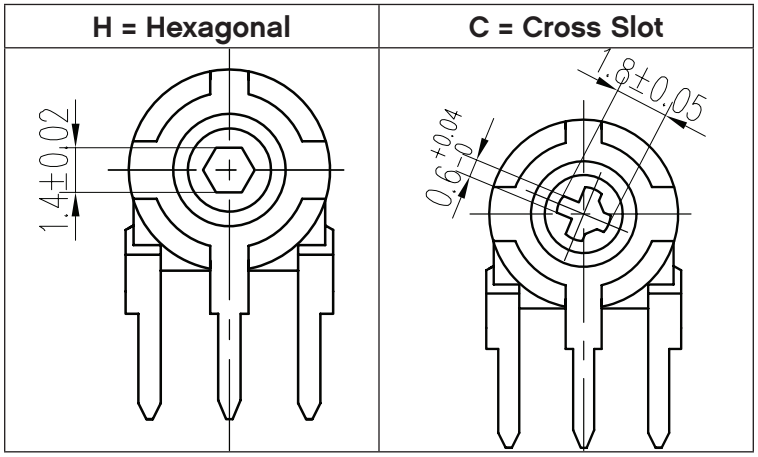


C (Reverse Logarithmic Tapers)



ROTOR TYPE

units: mm
tolerance: ±0.3 mm
unless otherwise noted

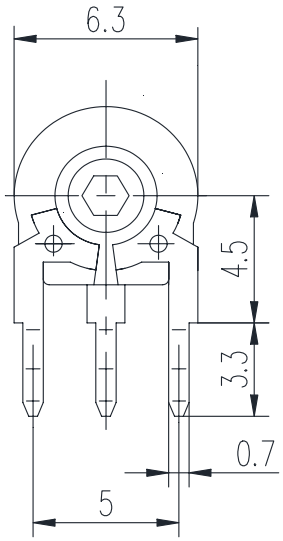


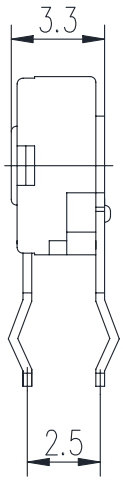
MECHANICAL DRAWING (HORIZONTAL, CRIMPED TERMINALS)

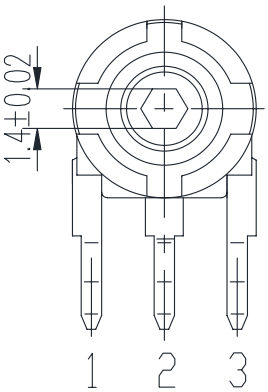
units: mm
tolerance:
X≤10: ±0.3 mm
10<X≤30: ±0.5 mm
30<X≤100: ±1.0 mm
unless otherwise noted

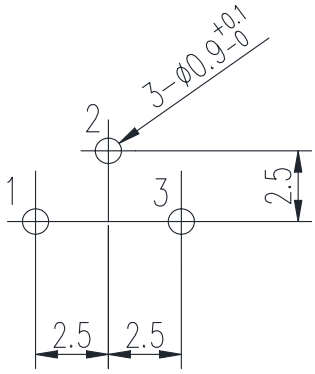
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PA6 (UL94HB)	black
B	terminals	steel	tin
C	reed	zinc	cupronickel

TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
1	Initial
2	Wiper
3	Final









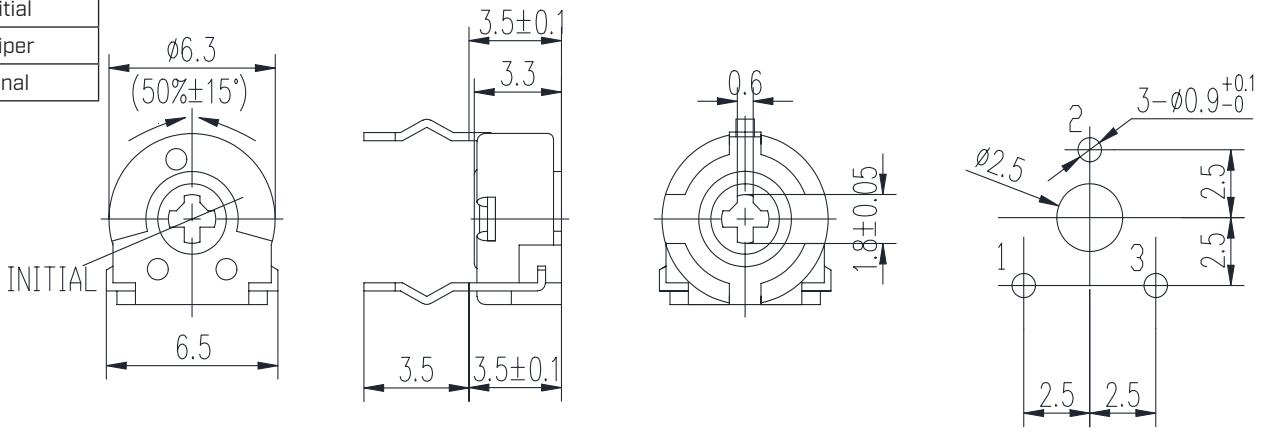
Recommended PCB Layout
Top View

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

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



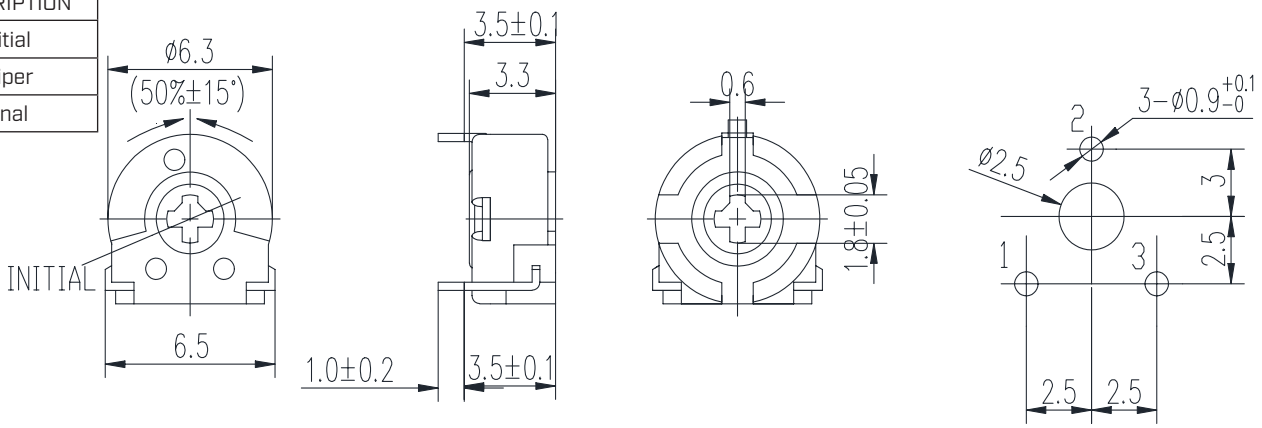
Recommended PCB Layout
Top View

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

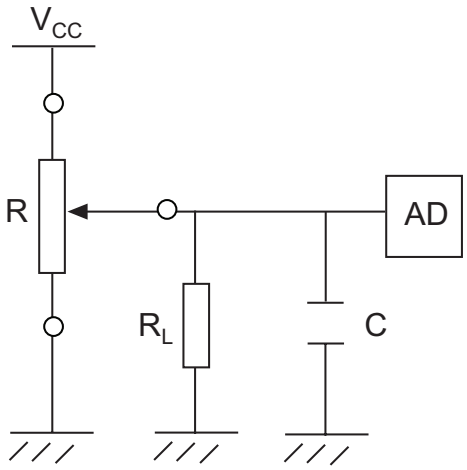
ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
A	housing	PA6 (UL94HB)	black
B	terminals	steel	tin
C	reed	zinc	cupronickel

TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
1	Initial
2	Wiper
3	Final



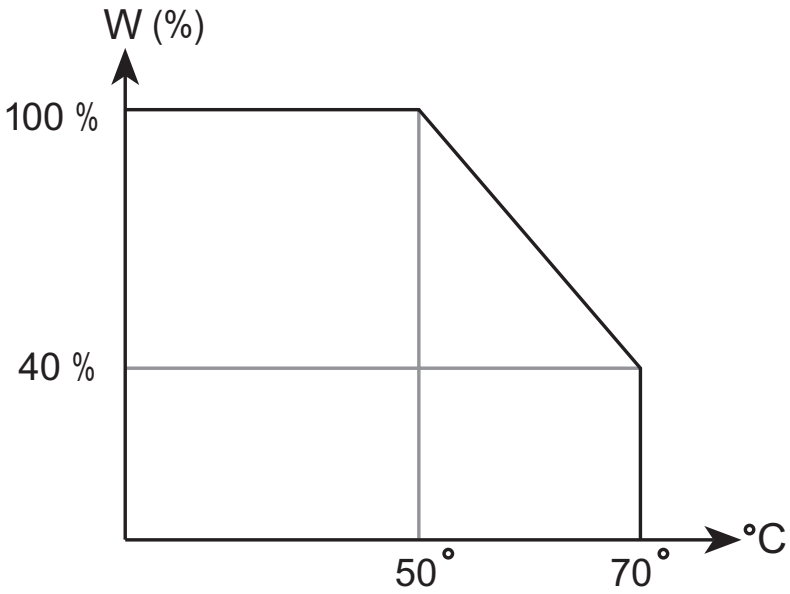
Recommended PCB Layout
Top View

RECOMMENDED CIRCUIT



$R_L \approx 100 \times R$

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

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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