

SERIES: PTN10 | **DESCRIPTION:** ROTARY POTENTIOMETER

FEATURES

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

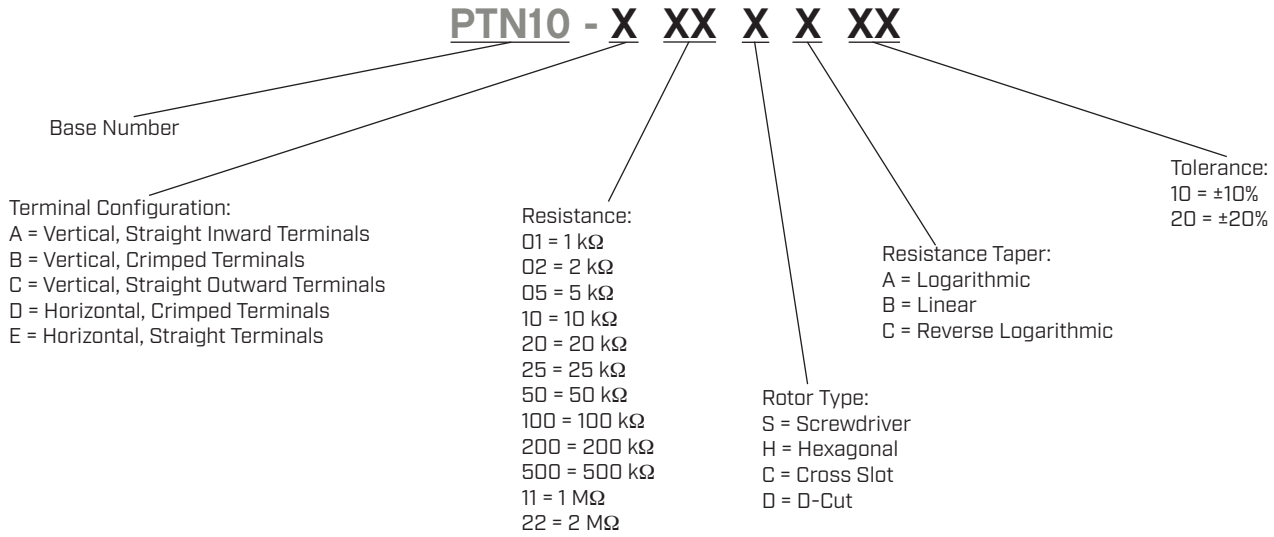

SPECIFICATIONS

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	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				

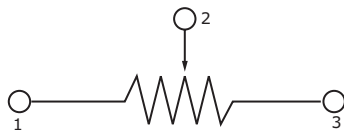
MECHANICAL

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	varies by model	0.5		0.7	g

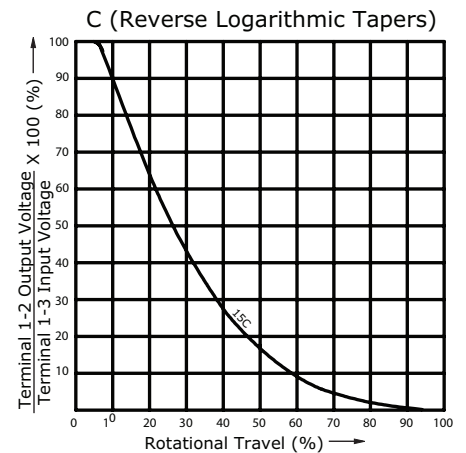
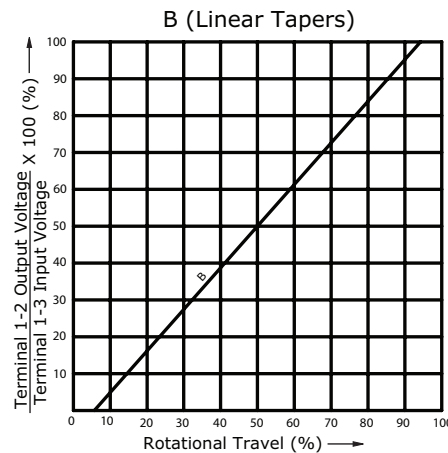
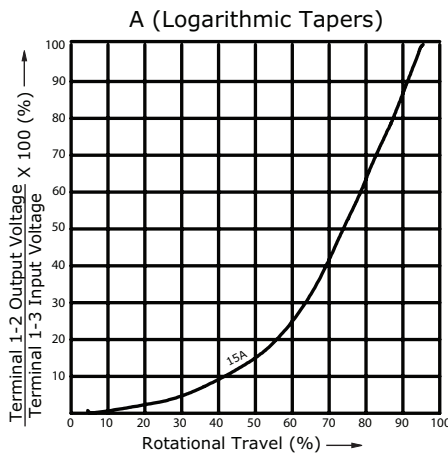
PART NUMBER KEY



SCHEMATIC/TAPERS

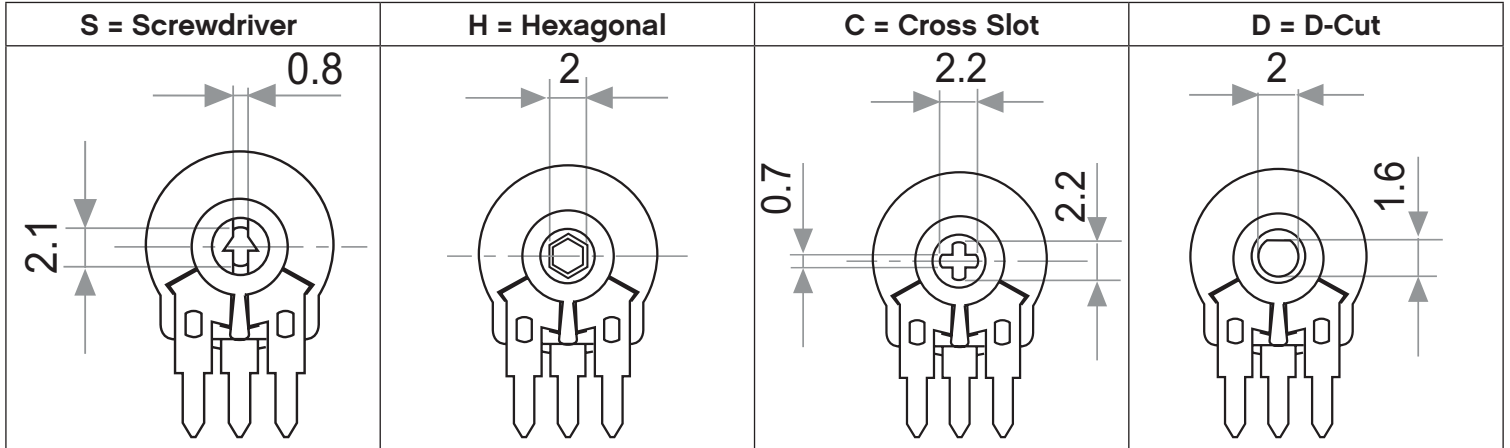


Resistance Table	
Resistance [KΩ]	Code
1	01
2	02
5	05
10	10
20	20
25	25
50	50
100	100
200	200
500	500
1,000	11
2,000	22



ROTOR TYPE

units: mm
 tolerance: ± 0.3 mm
 unless otherwise noted



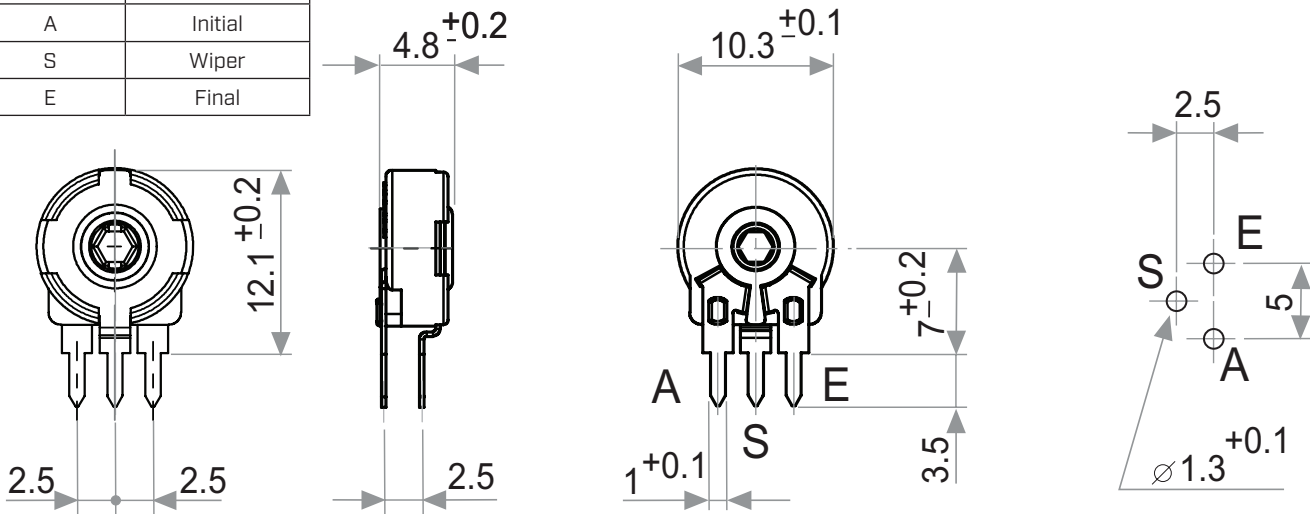
Note: Default delivery is at initial position of wiper.

MECHANICAL DRAWING (VERTICAL, STRAIGHT INWARD TERMINALS)

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

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

TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
A	Initial
S	Wiper
E	Final



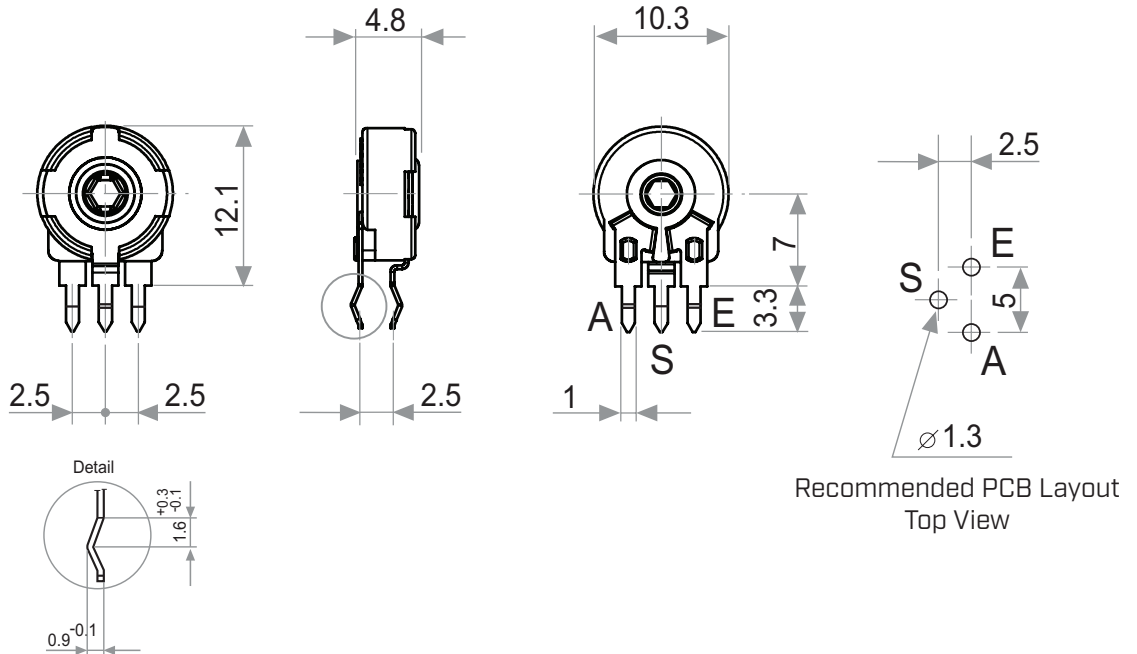
Recommended PCB Layout
Top View

MECHANICAL DRAWING (VERTICAL, CRIMPED TERMINALS)

units: mm
 tolerance:
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 unless otherwise noted

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TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
A	Initial
S	Wiper
E	Final

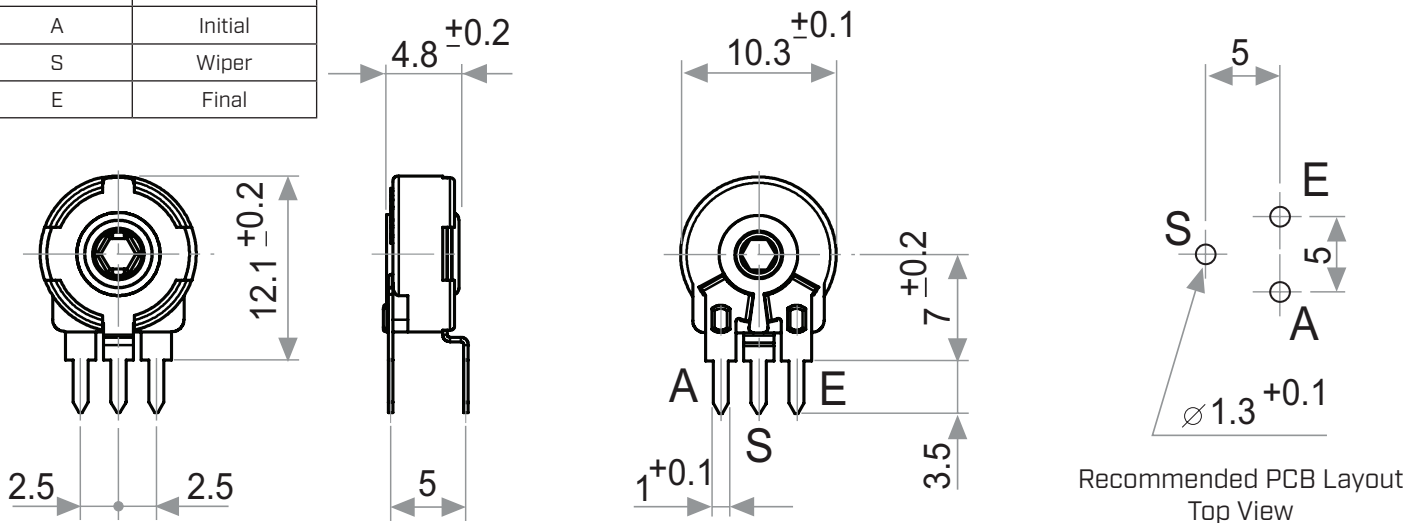


MECHANICAL DRAWING (VERTICAL, STRAIGHT OUTWARD TERMINALS)

units: mm
 tolerance:
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TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
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S	Wiper
E	Final

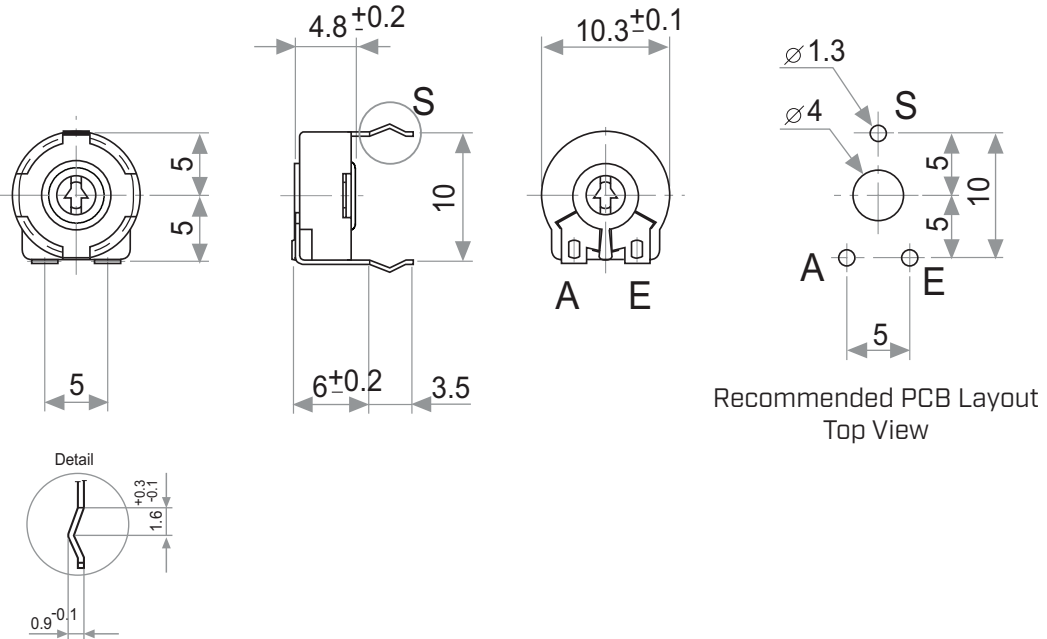


MECHANICAL DRAWING (HORIZONTAL, CRIMPED TERMINALS)

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

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
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TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
A	Initial
S	Wiper
E	Final

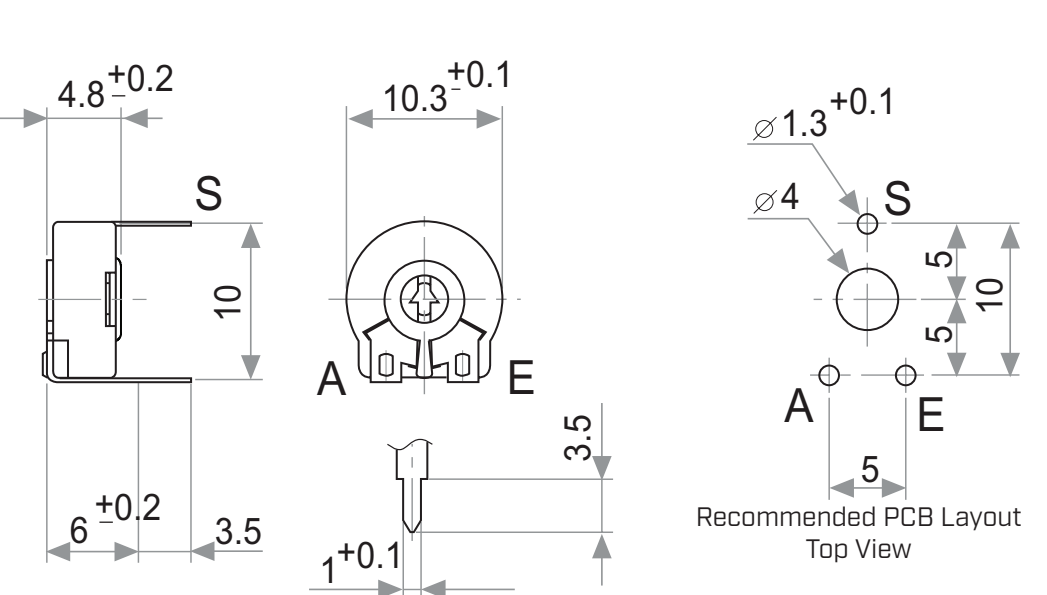


MECHANICAL DRAWING (HORIZONTAL, STRAIGHT TERMINALS)

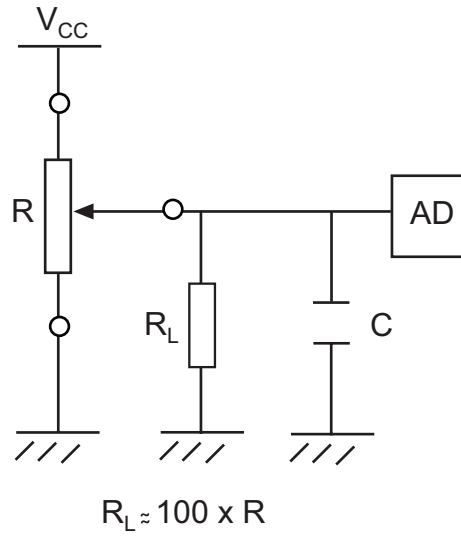
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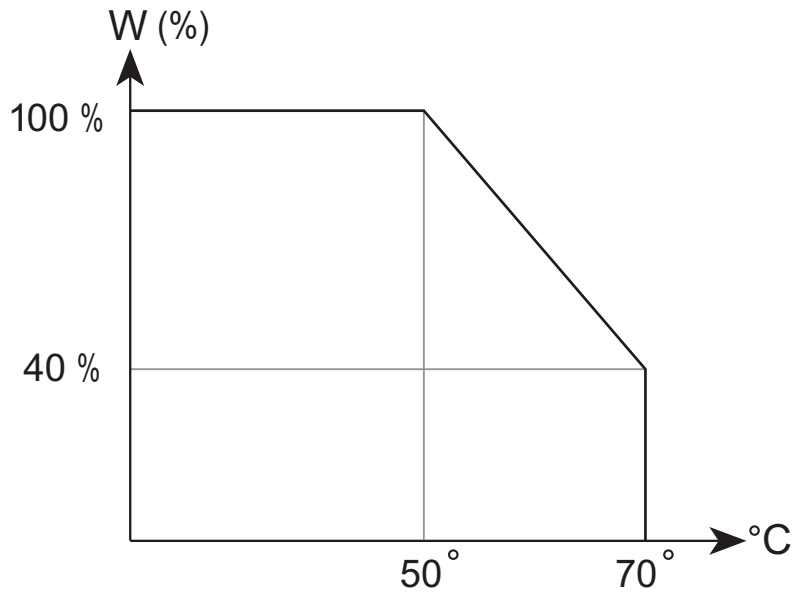
TERMINAL CONNECTIONS	
TERMINAL	DESCRIPTION
A	Initial
S	Wiper
E	Final



RECOMMENDED CIRCUIT



POWER DERATING CURVE



REVISION HISTORY

rev.	description	date
1.0	initial release	06/22/2022
1.01	logo, datasheet style update	08/05/2022
1.02	updated taper detail	01/15/2024

The revision history provided is for informational purposes only and is believed to be accurate.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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