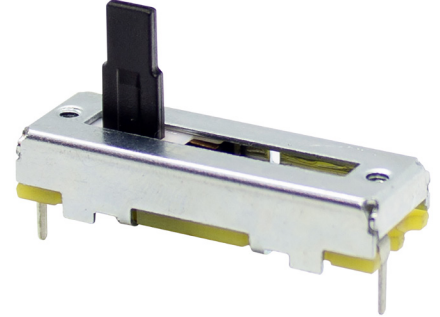


**SERIES:** PTNS1 | **DESCRIPTION:** SLIDE POTENTIOMETER**FEATURES**

- multiple travel length options
- multiple lever options
- carbon element

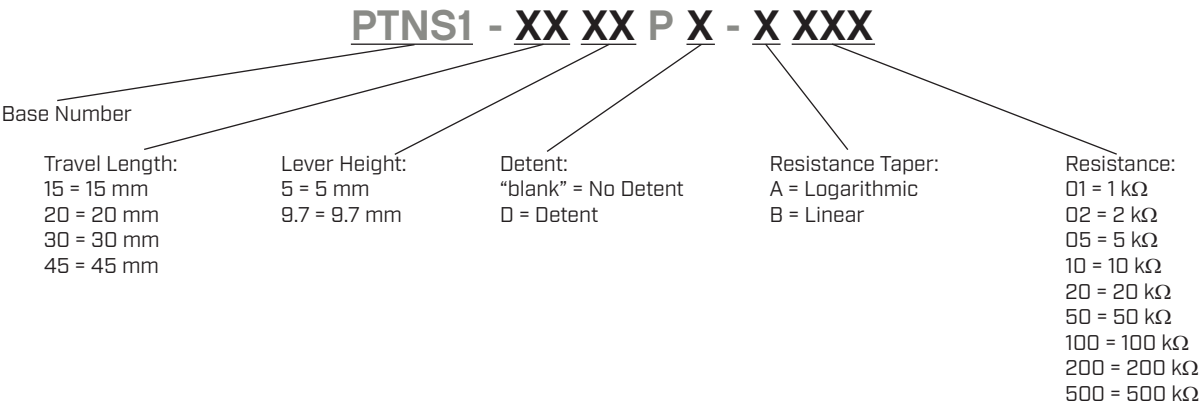
**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
maximum operating voltage				200	Vac
power rating				0.25	W
taper	linear and logarithmic				
standard resistance range	see Resistance Table	1		500	k Ω
standard resistance tolerance			± 20		%
residual resistance				20	m Ω
sliding noise				100	mV
insulation resistance	at 250 Vdc	10			M Ω
withstand voltage	for 1 minute		300		Vac
operating temperature		-10		75	$^{\circ}\text{C}$
hand soldering	for 3 seconds max			300	$^{\circ}\text{C}$
wave soldering	for 5 seconds max			260	$^{\circ}\text{C}$
RoHS	yes				

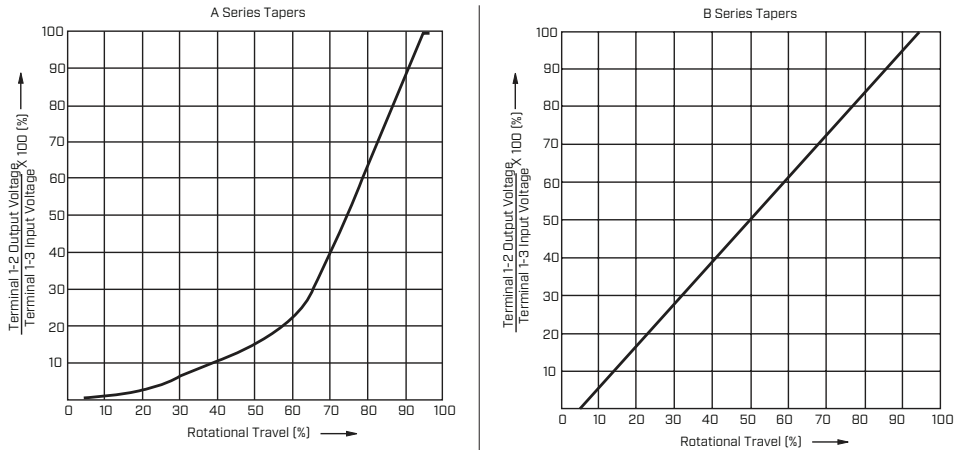
MECHANICAL

parameter	conditions/description	min	typ	max	units
travel length	15, 20, 30, 45 mm models				mm
operating force	models without detent	30		150	gf
	models with detent	50		350	gf
stop strength		5			kgf
sliding life	at 10~15 cycles/minute, no load		10,000		cycles
weight	15 mm travel length models	3.0	3.1	3.2	g
	20 mm travel length models	3.3	3.4	3.5	g
	30 mm travel length models	4.0	4.1	4.2	g
	45 mm travel length models	5.0	5.1	5.2	g

PART NUMBER KEY

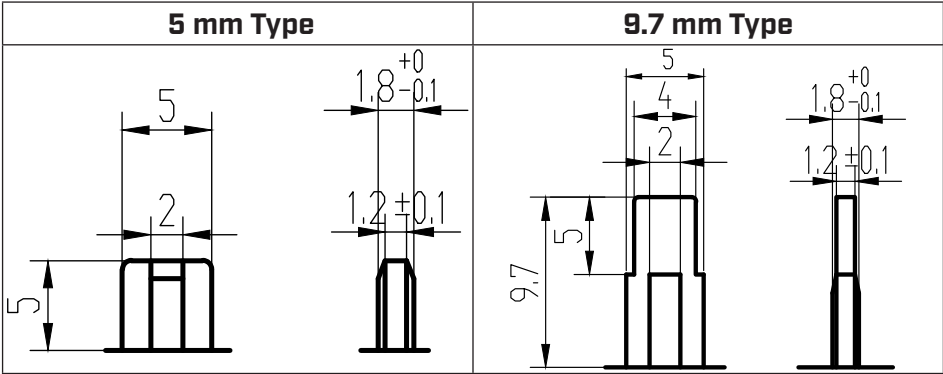


TAPERS



LEVER TYPES

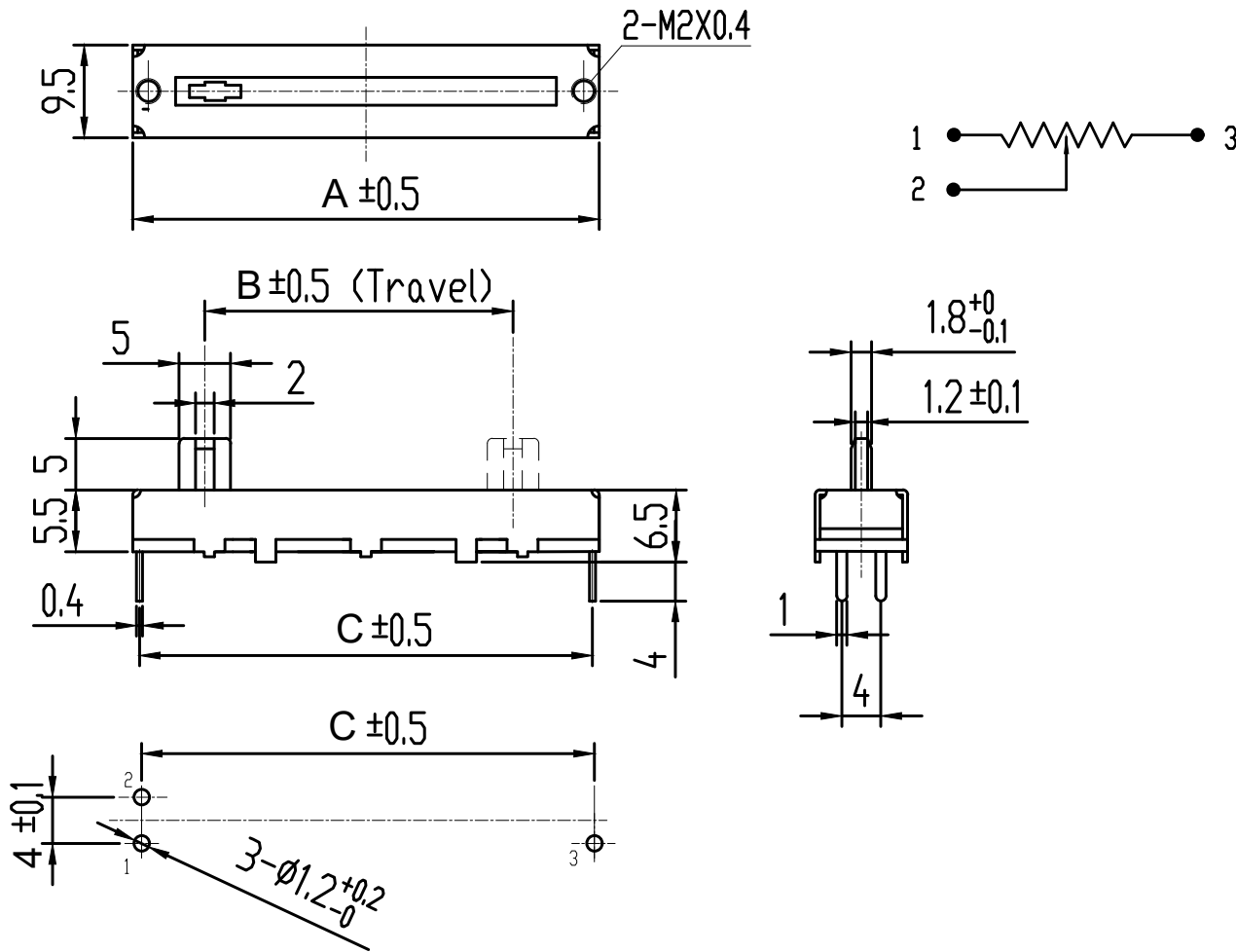
units: mm
tolerance:
X≤10.00: ±0.30 mm
10.00<X≤30.00: ±0.50 mm
30.00<X≤100.00: ±1.0 mm
unless otherwise noted



MECHANICAL DRAWING

units: mm
tolerance:
X≤10.00: ±0.30 mm
10.00<X≤30.00: ±0.50 mm
30.00<X≤100.00: ±1.0 mm
unless otherwise noted

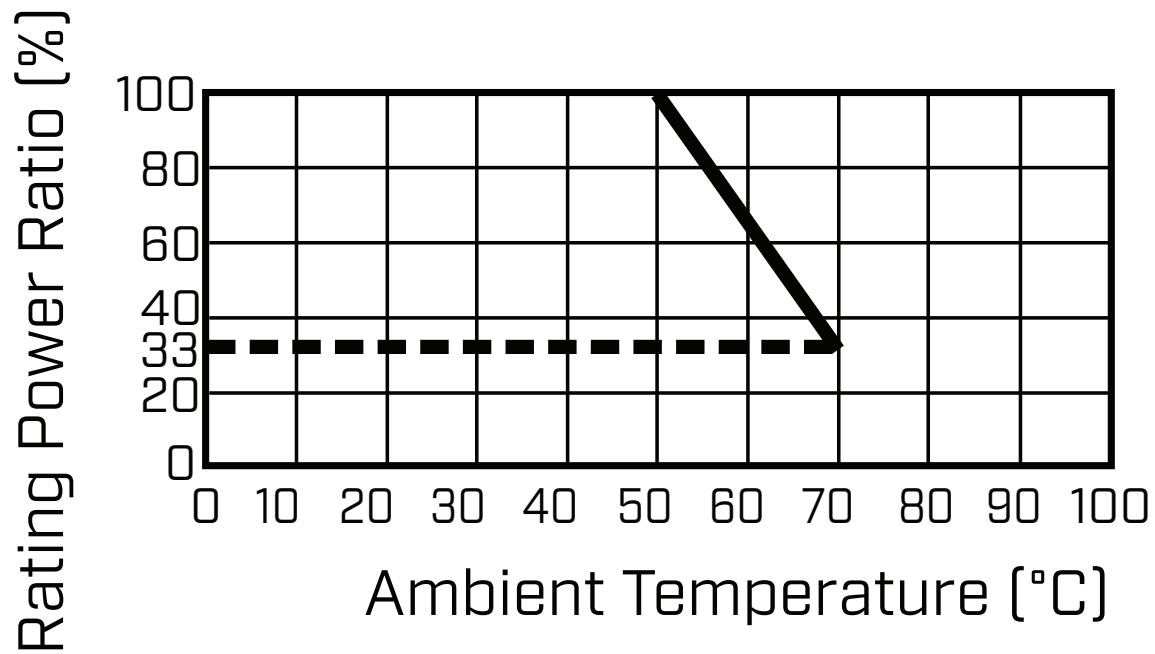
DESCRIPTION	MATERIAL	PLATING/COLOR
lever	POM (UL94HB)	black
reed	zinc alloy	white copper
housing	cold rolled steel	tin
carbon plate	paper substrate (20, 30, 45 mm travel models), FR4 substrate (15 mm travel models)	---
terminals	cold rolled steel	tin
contact spring	bronze	tin
plastic washer	PTFE (UL94HB)	white



Recommended PCB Layout
Top View

TRAVEL LENGTH MODELS	A [mm]	B [mm]	C [mm]
15	30	15	29
20	35	20	34
30	45	30	44
45	60	45	59

POWER DERATING CURVE



REVISION HISTORY

rev.	description	date
1.0	initial release	11/24/2025

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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