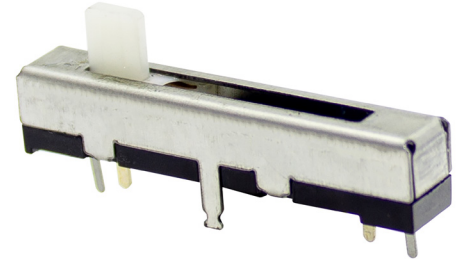


**SERIES:** PTNS3 | **DESCRIPTION:** SLIDE POTENTIOMETER**FEATURES**

- 20 mm travel length
- plastic lever
- carbon element

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
maximum operating voltage				200	Vac
power rating				0.1	W
taper	linear				
standard resistance range	see Resistance Table	1		500	k Ω
standard resistance tolerance			± 20		%
residual resistance				20	m Ω
sliding noise				68	mV
insulation resistance	at 250 Vdc	100			M Ω
withstand voltage	for 1 minute		250		Vac
operating temperature		-10		75	$^{\circ}\text{C}$
hand soldering	for 3 seconds max			300	$^{\circ}\text{C}$
RoHS	yes				

MECHANICAL

parameter	conditions/description	min	typ	max	units
travel length	20 mm				mm
operating force		50		200	gf
stop strength		5			kgf
sliding life	at 10~15 cycles/minute, no load		10,000		cycles
weight		2.5	2.6	2.7	g

PART NUMBER KEY

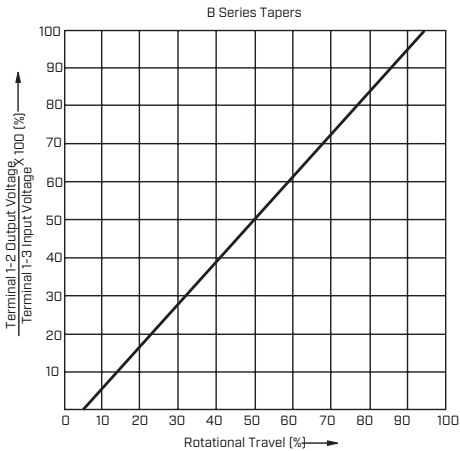
PTNS3 - 20 XX P - B XXX

Base Number

Lever Height:
2.7 = 2.7 mm
5 = 5 mm
10 = 10 mm

Resistance:
01 = 1 kΩ
02 = 2 kΩ
05 = 5 kΩ
10 = 10 kΩ
20 = 20 kΩ
50 = 50 kΩ
100 = 100 kΩ
200 = 200 kΩ
500 = 500 kΩ

TAPERS



LEVER TYPES

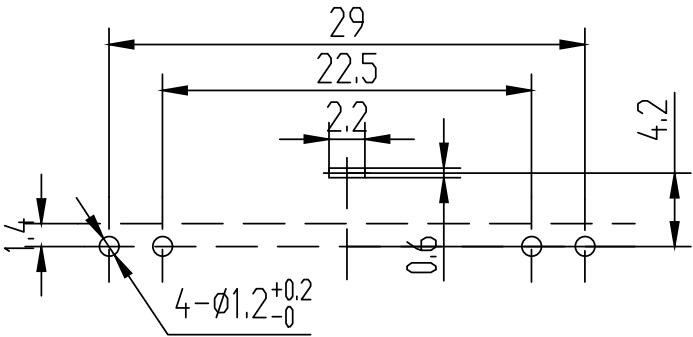
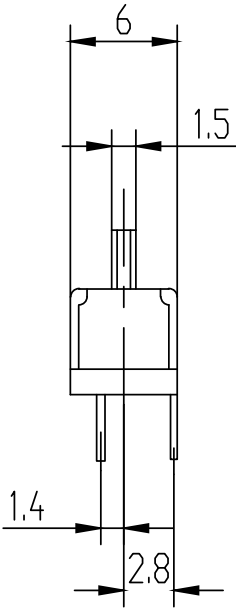
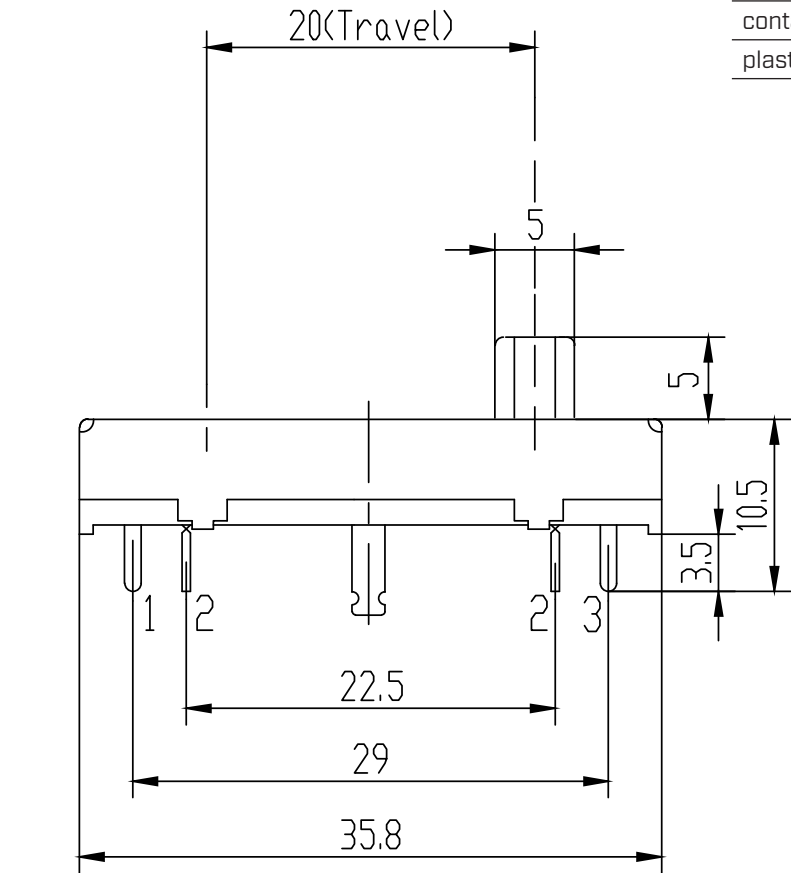
units: mm
tolerance:
X≤10.00: ±0.30 mm
10.00<X≤30.00: ±0.50 mm
30.00<X≤100.00: ±1.0 mm
unless otherwise noted

2.7, 5 mm Type		10 mm Type	
H	2.7 5	H	10

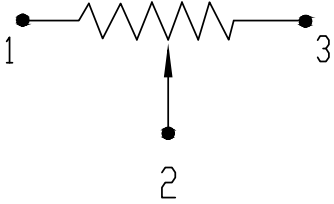
MECHANICAL DRAWING

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

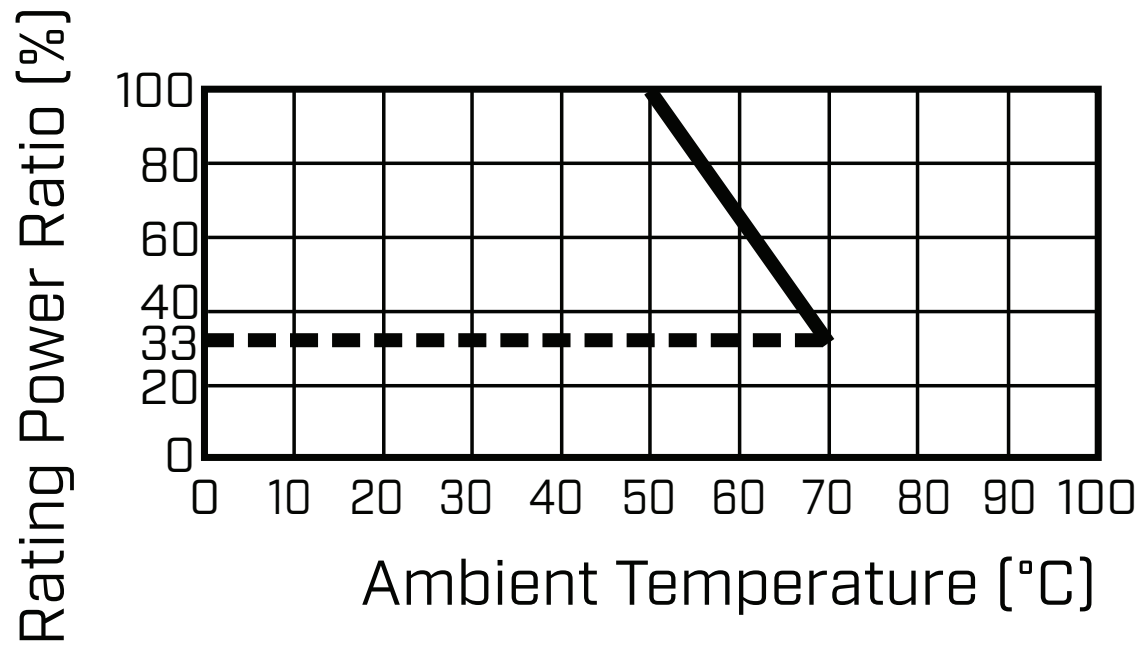
DESCRIPTION	MATERIAL	PLATING/COLOR
plastic lever	ABS (UL94HB)	white
base	PC (UL94HB)	black
reed	zinc alloy	white copper
housing	cold rolled steel	tin
carbon plate	paper substrate	---
terminals	cold rolled steel	tin
center terminal	brass	silver
contact spring	bronze	tin
plastic washer	PTFE (UL94HB)	white



Recommended PCB Layout
Top View



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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