

SERIES: PTN24B | **DESCRIPTION:** ROTARY POTENTIOMETER

FEATURES

- carbon element
- Includes switch
- 10K lifecycle
- plastic shaft options

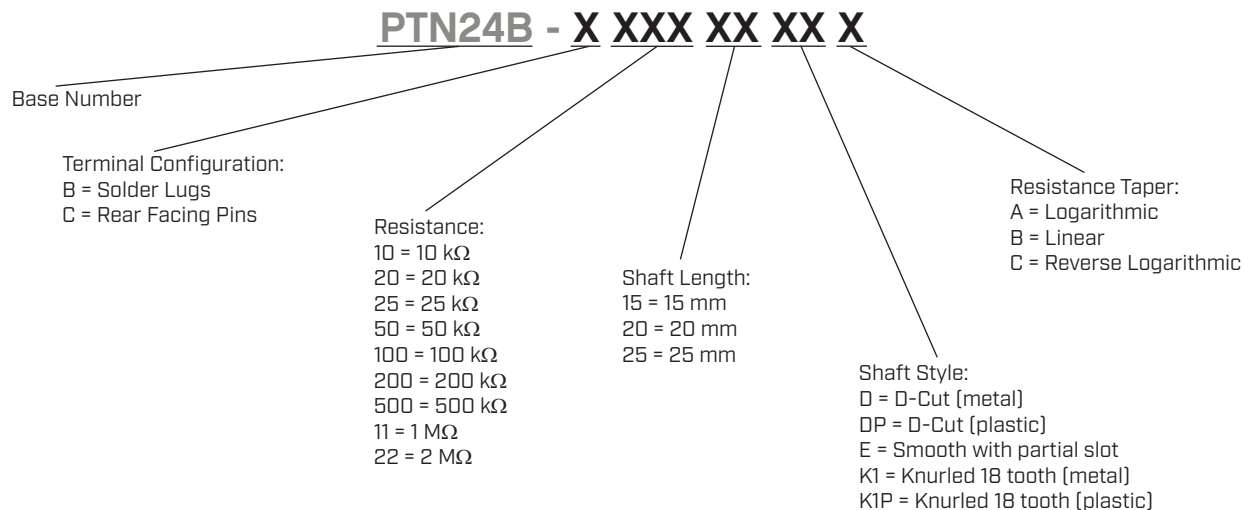

SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
maximum operating voltage				200	Vdc
power rating	at 70°C			0.5	W
taper	linear, logarithmic, and reverse logarithmic				
standard resistance range	see Resistance Table	10		2,000	kΩ
standard resistance tolerance			±20		%
residual resistance				±1	%
sliding noise				6	mV
operating temperature		-10		75	°C
hand soldering	for 3 seconds max			260	°C
RoHS	yes				

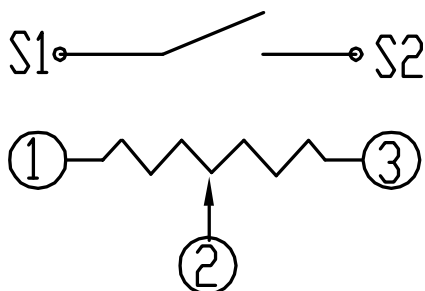
MECHANICAL

parameter	conditions/description	min	typ	max	units
mechanical angle		295	300	305	°
rotational torque		10		150	gf-cm
switch operating force		200		800	gf-cm
stop strength		4			kg-cm
rotational life			10,000		cycles
weight		12	15	18	g

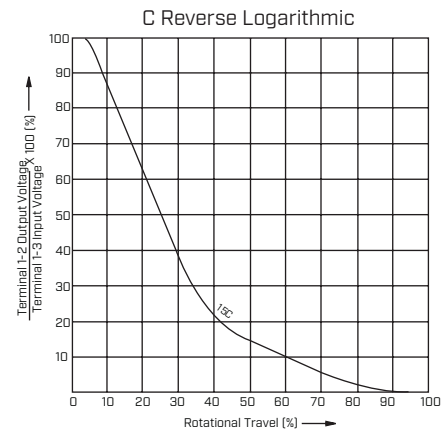
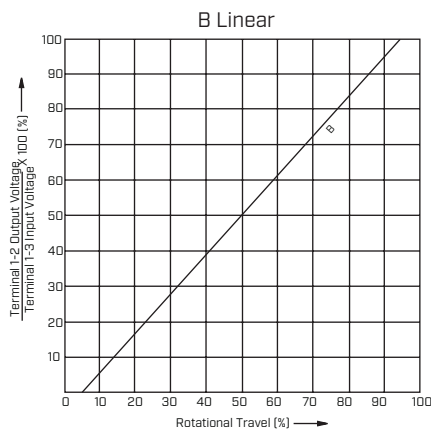
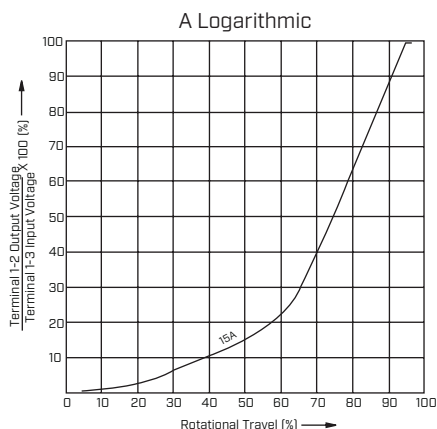
PART NUMBER KEY



SCHEMATIC/TAPERS



Resistance Table	
Resistance [kΩ]	Code
10	10
20	20
25	25
50	50
100	100
200	200
500	500
1,000	11
2,000	22



SHAFT TYPES

units: mm

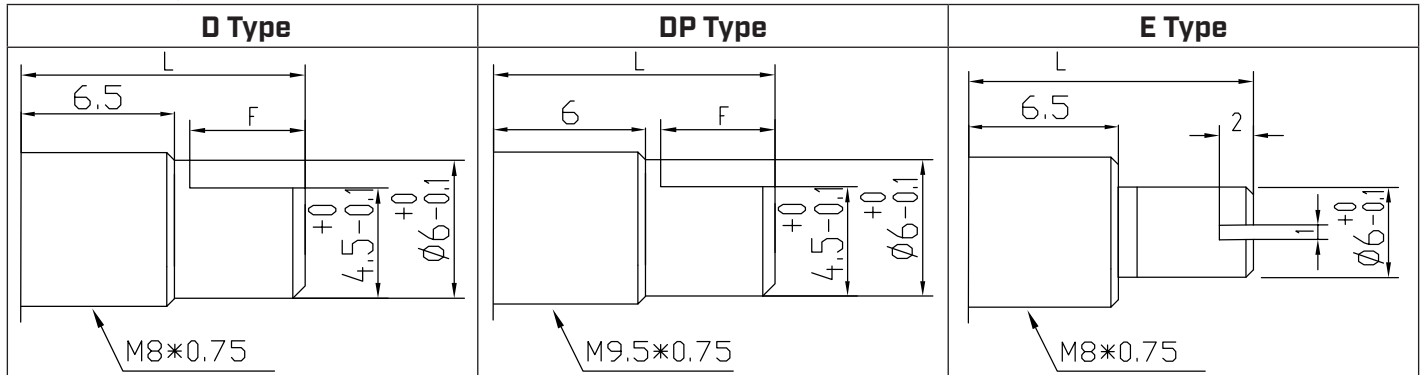
tolerance:

$X \leq 10.00$: ± 0.30 mm

$10.00 < X \leq 30.00$: ± 0.50 mm

$30.00 < X \leq 100.00$: ± 1.0 mm

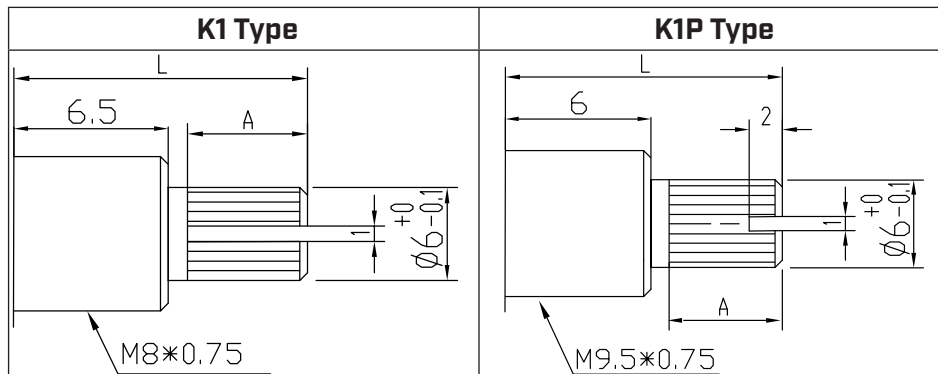
unless otherwise noted



L	15	20	25
F	7	12	12

L	15	20	25
A	7	12	12

L	15	20	25
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L	15	20	25
F	7	11	17

L	15	20	25
A	7.5	12.5	17

MECHANICAL DRAWING (B TERMINAL CONFIGURATION)

units: mm

tolerance:

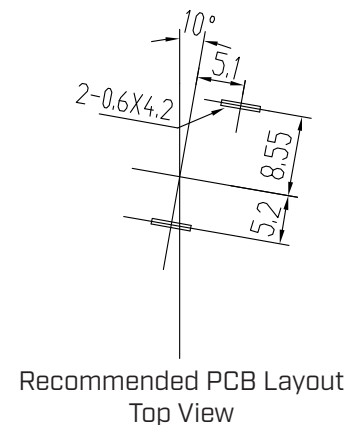
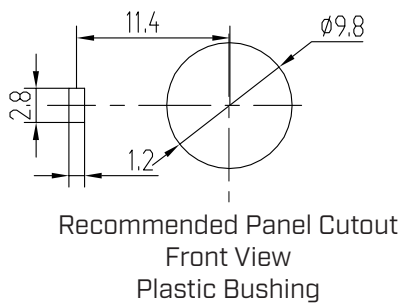
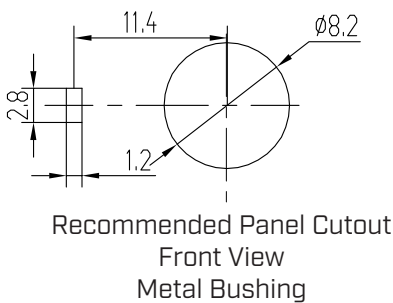
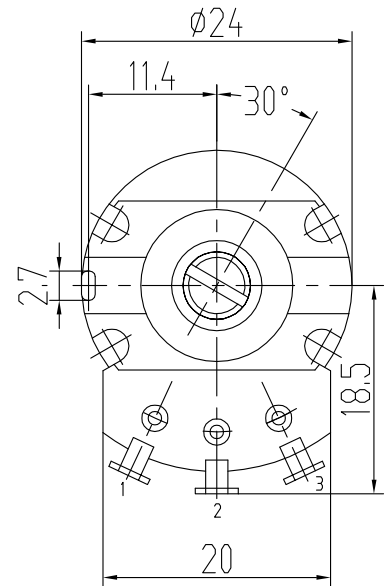
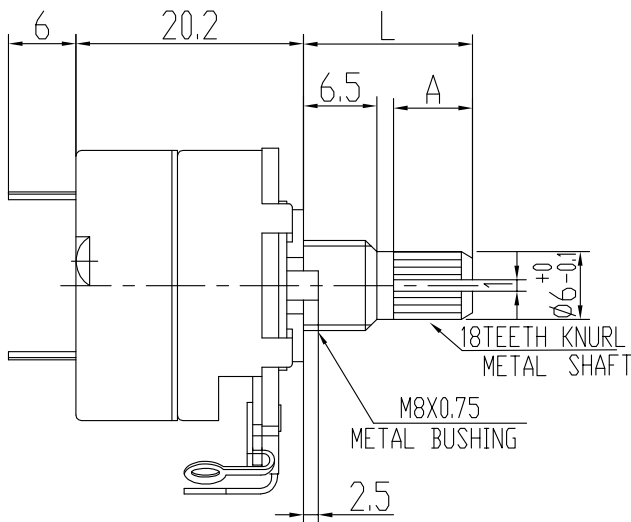
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$30.00 < X \leq 100.00$: ± 1.0 mm

unless otherwise noted

DESCRIPTION	MATERIAL	PLATING/COLOR
housing	cold rolled steel	
terminals	cold rolled steel	
bushing	zinc alloy or POM	
plastic shaft models	POM	black
metal shaft models (smooth shaft models & 25 mm D-cut model)	aluminum	
metal shaft models (all other versions)	zinc alloy	
switch base	H161 PF	black



MECHANICAL DRAWING (C TERMINAL CONFIGURATION)

units: mm

tolerance:

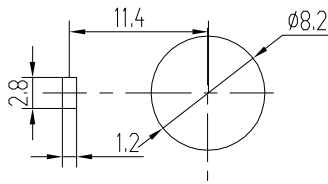
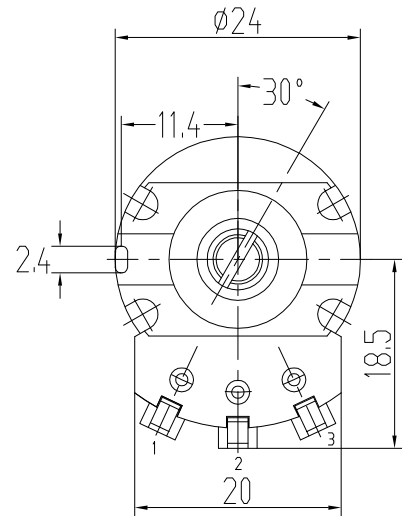
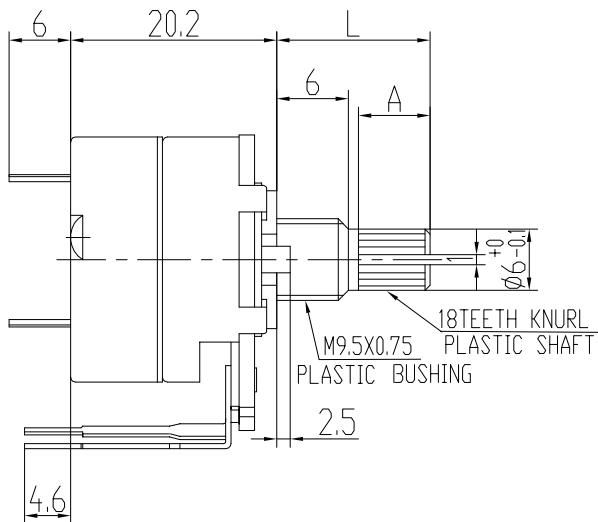
$X \leq 10.00$: ± 0.30 mm

$10.00 < X \leq 30.00$: ± 0.50 mm

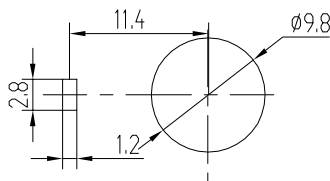
$30.00 < X \leq 100.00$: ± 1.0 mm

unless otherwise noted

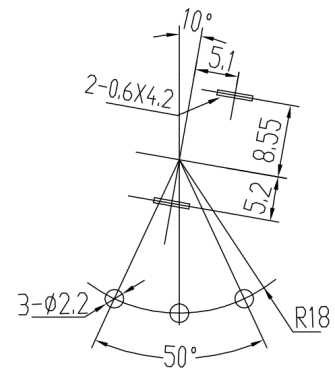
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Recommended Panel Cutout
Front View
Metal Bushing



Recommended Panel Cutout
Front View
Plastic Bushing

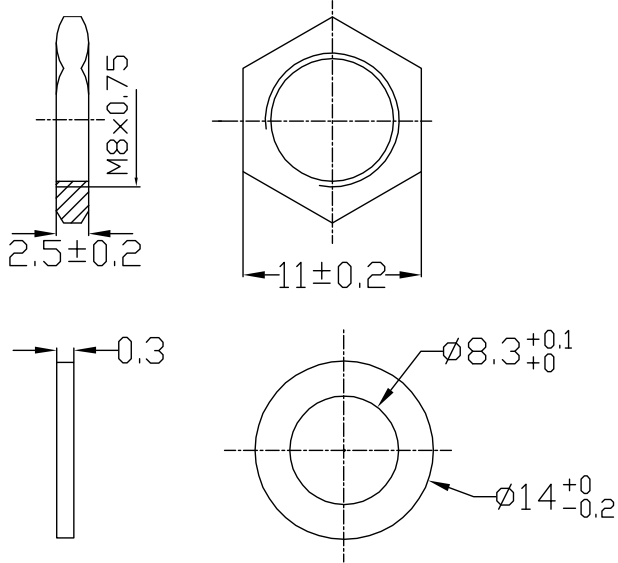


Recommended PCB Layout
Top View

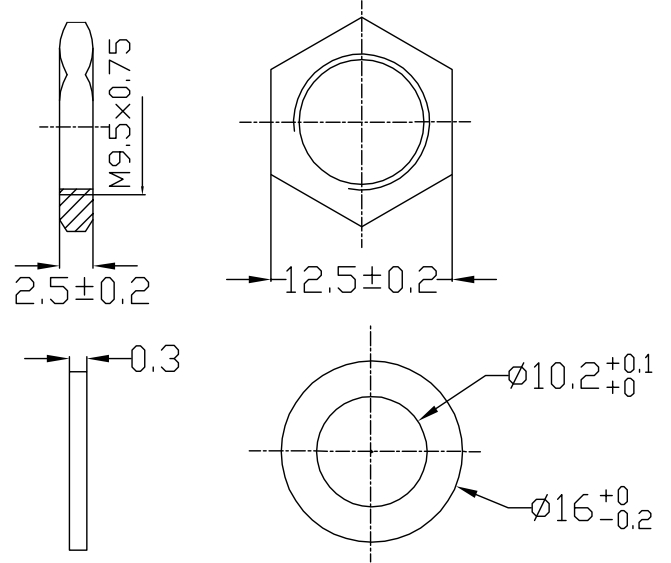
MOUNTING HARDWARE

units: mm
 tolerance:
 X≤10.00: ±0.30 mm
 unless otherwise noted

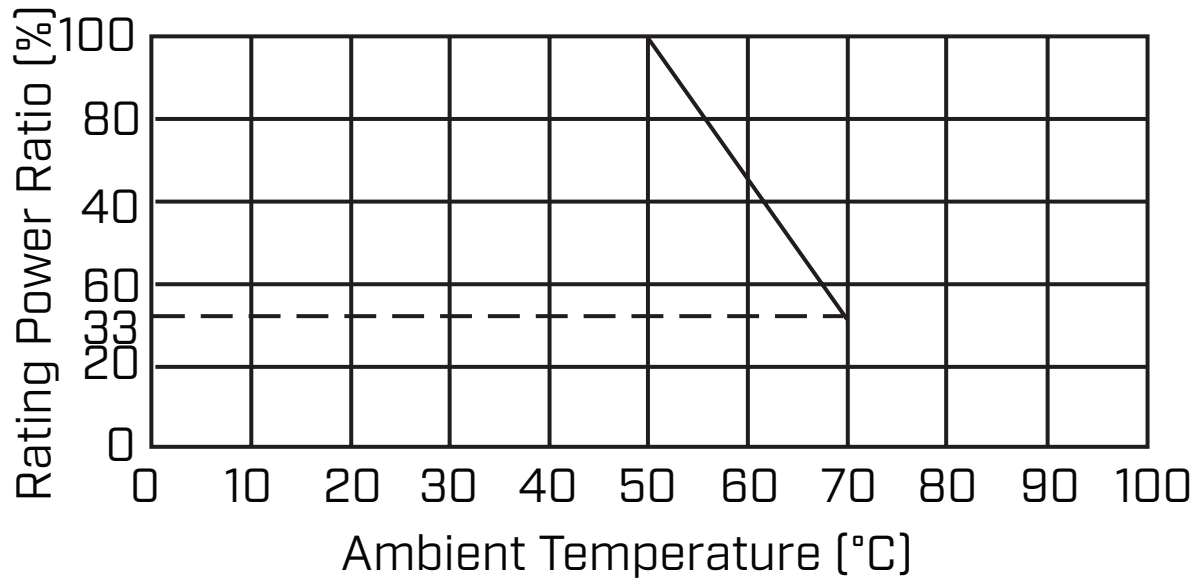
Metal Shaft Models



Plastic Shaft Models



POWER DERATING CURVE



REVISION HISTORY

rev.	description	date
1.0	initial release	12/06/2023

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



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