

SERIES: PTN24A | **DESCRIPTION:** ROTARY POTENTIOMETER

FEATURES

- carbon element
- 200K lifecycle
- plastic shaft options

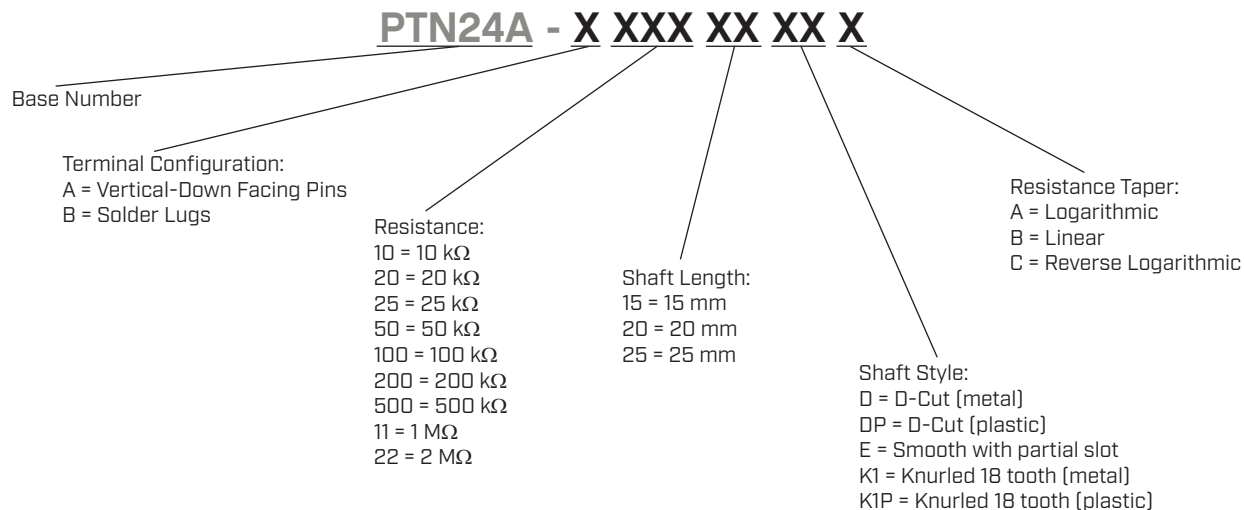

SPECIFICATIONS

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				

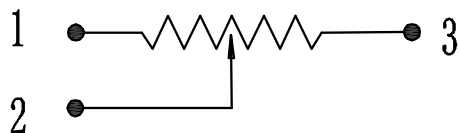
MECHANICAL

parameter	conditions/description	min	typ	max	units
mechanical angle		295	300	305	°
rotational torque		10		150	gf-cm
stop strength		4			kg-cm
rotational life			200,000		cycles
weight		7.5	9.5	11.5	g

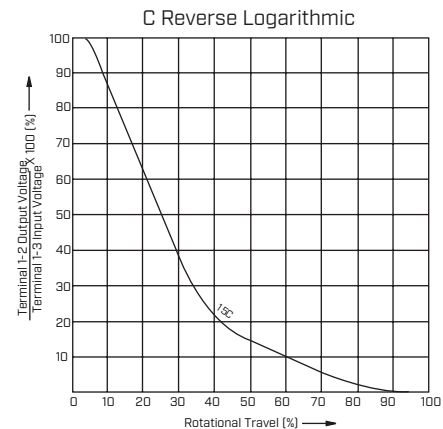
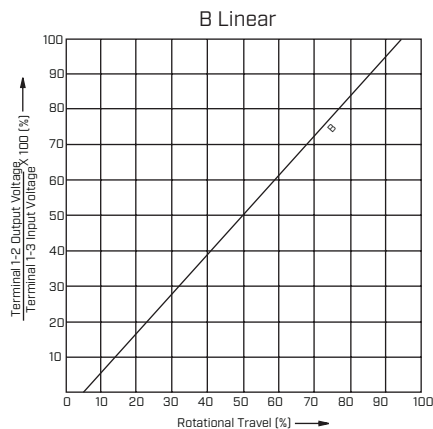
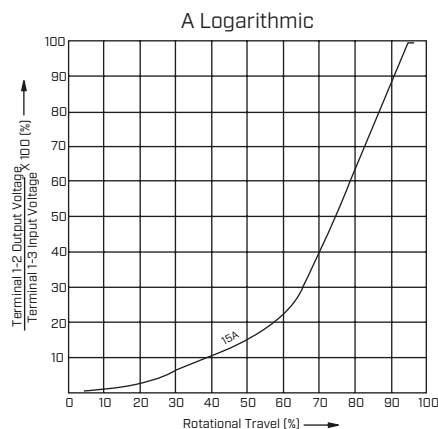
PART NUMBER KEY



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

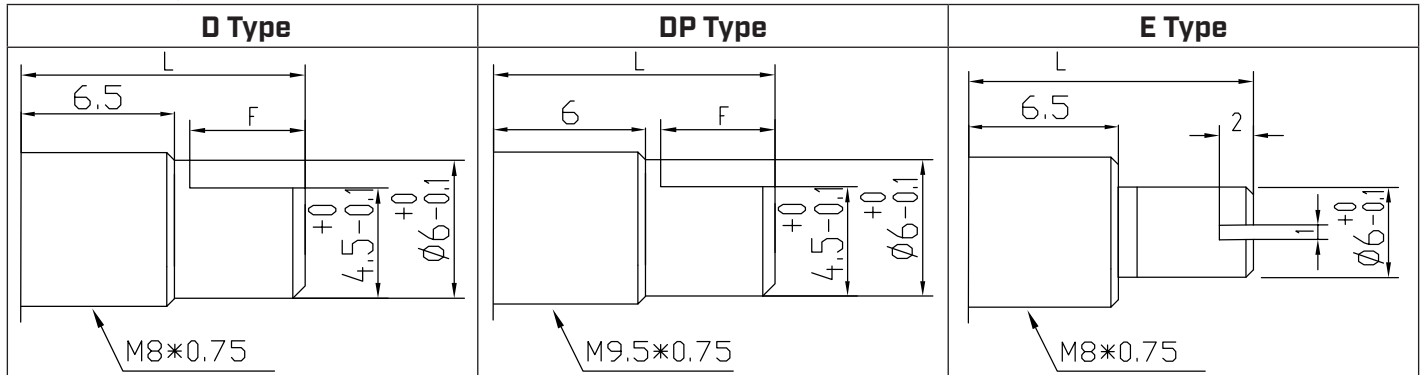
tolerance:

$X \leq 10.00$: ± 0.30 mm

$10.00 < X \leq 30.00$: ± 0.50 mm

$30.00 < X \leq 100.00$: ± 1.0 mm

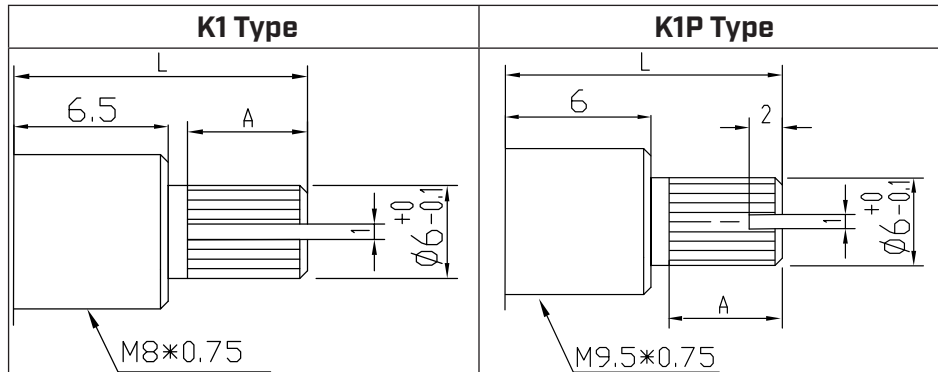
unless otherwise noted



L	15	20	25
F	7	12	12

L	15	20	25
A	7	12	12

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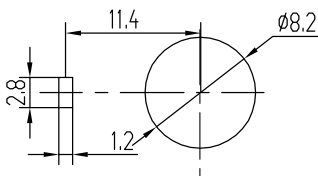
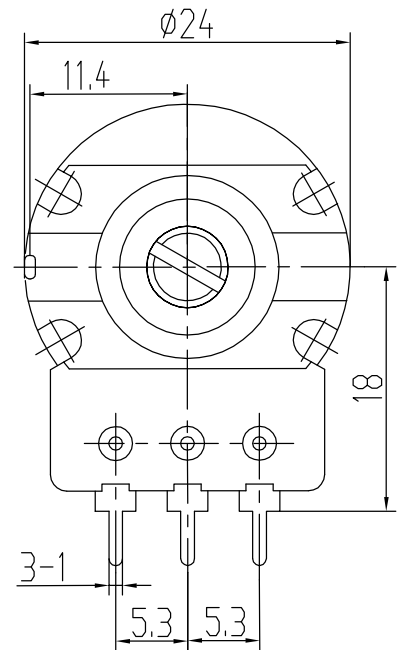
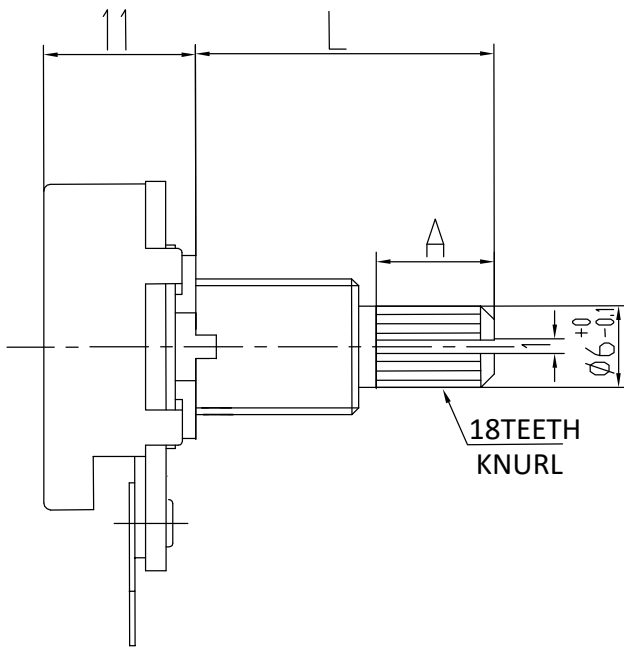
L	15	20	25
F	7	11	17

L	15	20	25
A	7.5	12.5	17

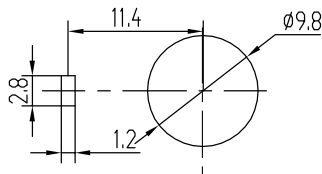
MECHANICAL DRAWING (A TERMINAL CONFIGURATION)

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

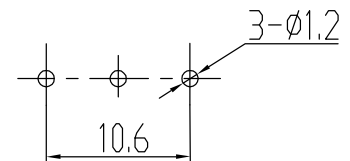
DESCRIPTION	MATERIAL	PLATING/COLOR
housing	cold rolled steel	
terminals	cold rolled steel	
bushing	zinc alloy or POM	
plastic shaft models	POM	black
metal shaft models (smooth shaft models & 25 mm D-cut model)	aluminum	
metal shaft models (all other versions)	zinc alloy	



Recommended Panel Cutout
 Front View
 Metal Bushing



Recommended Panel Cutout
 Front View
 Plastic Bushing



Recommended PCB Layout
 Top View

MECHANICAL DRAWING (B TERMINAL CONFIGURATION)

units: mm

tolerance:

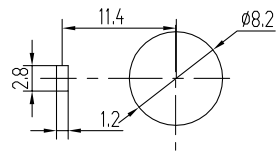
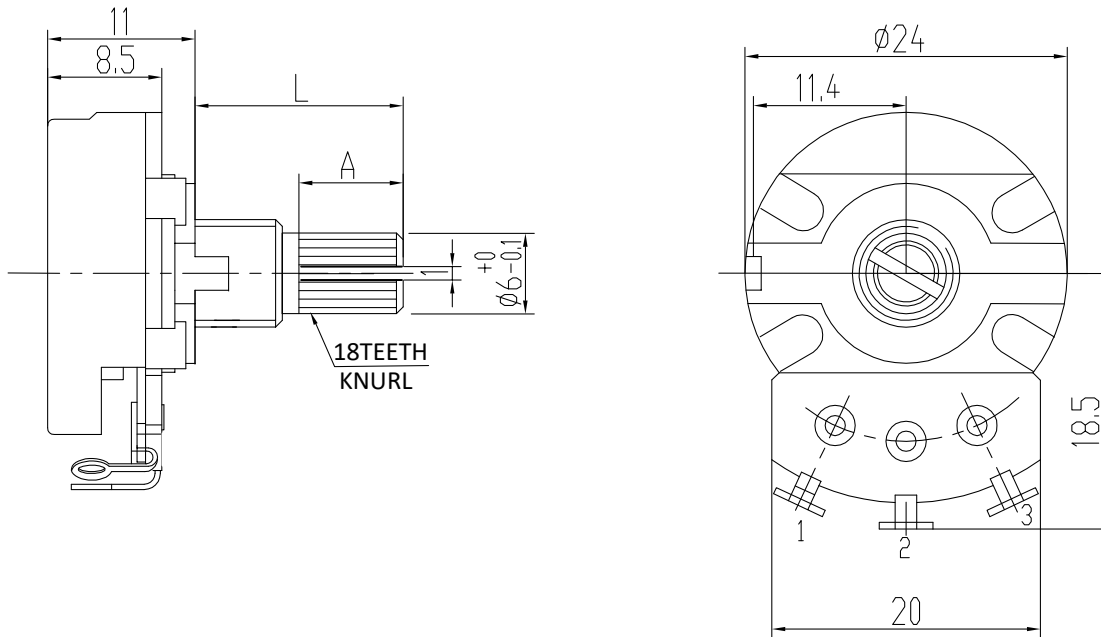
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$10.00 < X \leq 30.00$: ± 0.50 mm

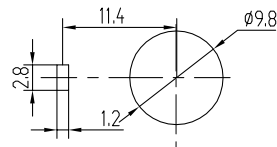
$30.00 < X \leq 100.00$: ± 1.0 mm

unless otherwise noted

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Recommended Panel Cutout
Front View
Metal Bushing

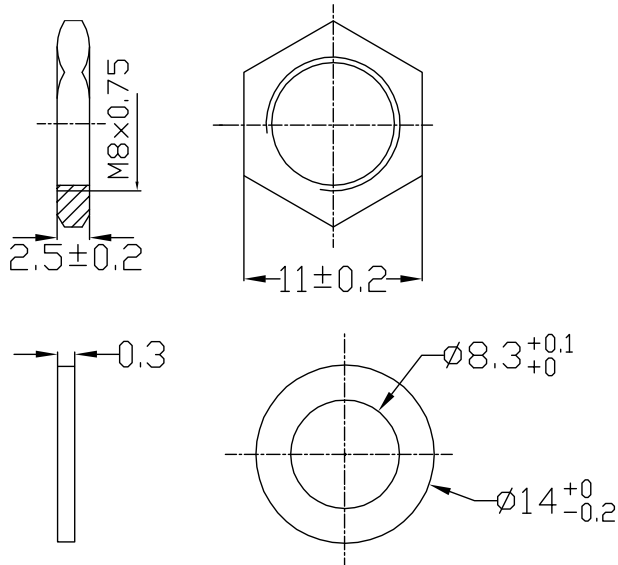


Recommended Panel Cutout
Front View
Plastic Bushing

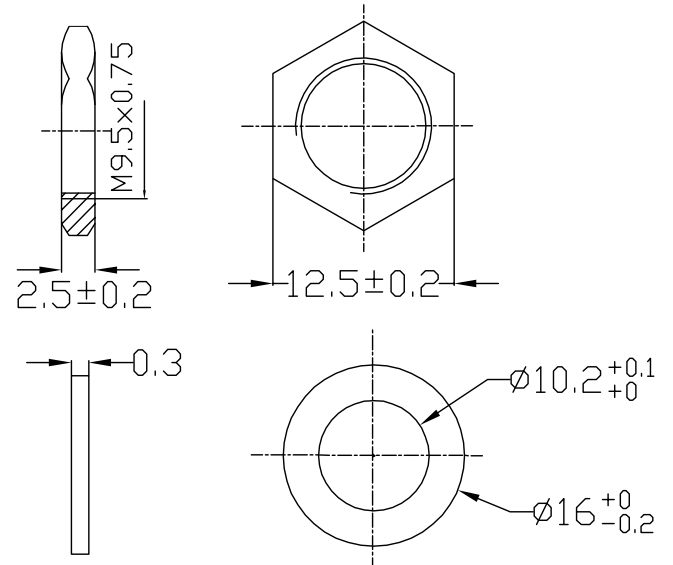
MOUNTING HARDWARE

units: mm
 tolerance:
 $X \leq 10.00$: ± 0.30 mm
 unless otherwise noted

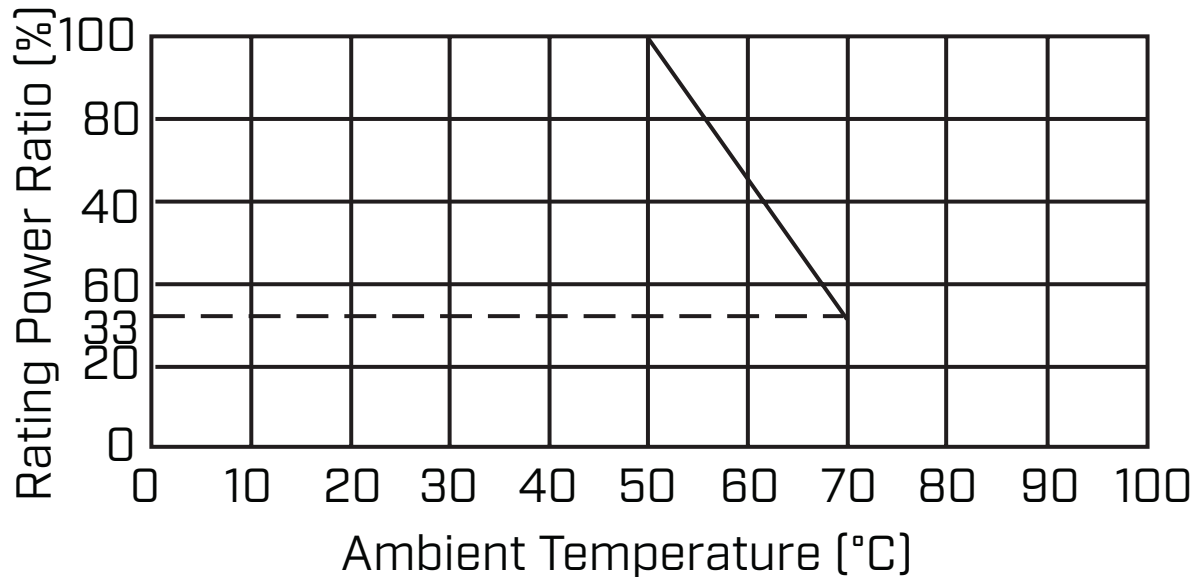
Metal Shaft Models



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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