

## Features:

- 1-5/16" diameter
- Conductive plastic technology
- Anodized aluminum housing
- Front and rear ball bearings



## Models Available

6371	1/4" Shaft, 3/8" Bushing
6373	1/4" Shaft, Servo

## Electrical

Resistance Range	1K to 300K Ohms
Standard Resistance Tolerance	±10%
Minimum Practical Resistance Tolerance	±5%
Independent Linearity <sup>2</sup>	±0.5%
Minimum Practical Independent Linearity	±0.1%
Input Voltage	400 VDC maximum, not to exceed power rating
Power Rating	2.0 Watts at 70°C, derating to 0 at 125°C
Dielectric Strength	1,000 V rms
Insulation Resistance	1,000 Megohms minimum
Output smoothness	0.1% maximum
Actual Electrical Travel	348° nominal
Electrical Continuity Travel	350° minimum
End Voltage	maximum 0.35% of input voltage
Tap Tolerance	maximum 0.5% of input voltage
Resolution	essentially infinite
Temperature Coefficient of Resistance <sup>3</sup>	-400 ppm/°C typical
Temperature Coefficient of Output Voltage <sup>4</sup>	±10 ppm/°C typical

## Mechanical

Total Mechanical Travel	360° continuous
Number of Gangs	1 maximum
Weight	2.0 oz. nominal
Shaft Runout	maximum T.I.R. 0.001"
Pilot Diameter Runout	maximum T.I.R. 0.0015"
Lateral Runout	maximum T.I.R. 0.002"
Shaft Radial Play	maximum 0.002"
Start/Run Torque	maximum 0.7 / 0.5 oz.-in., ES option adds 0.5 oz.-in.

<sup>1</sup> Specifications subject to change without notice.

<sup>2</sup> Linearity is measured between 1% and 99% of input voltage.

<sup>3</sup> Special TCR available to ±100 ppm/°C.

<sup>4</sup> Measured with 10 VDC CW to CCW and slider at 50% of electrical travel.

### General Note

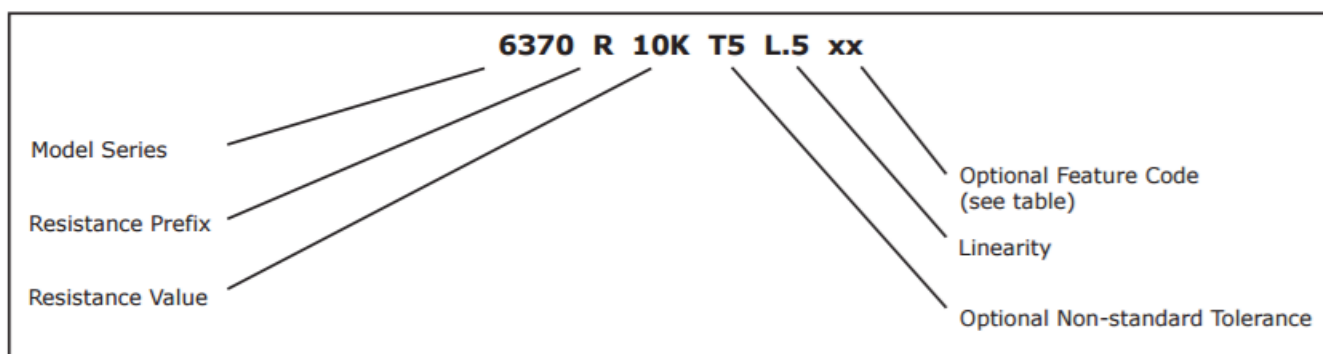
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## Environmental

Operating Temperature Range	-40°C to +125°C dynamic, -65°C to +125°C static
Temperature Cycling	5 cycles, -65°C to +125°C, maximum 10% ΔR
Shock	6 ms Saw-tooth, 100 G's, 0.1 ms maximum discontinuity
Vibration	15 G's, 10 to 2,000 Hz, maximum 2% ΔR, 0.1 ms maximum discontinuity
Moisture Resistance	ten 24 hour cycles, maximum 10% ΔR
High Temperature Exposure	1,000 hours at 125°C, maximum 0.5% ΔR
Rotational Load Life	5 million shaft revolutions plus 900 hours at 2.0 Watts & 70°C, maximum 10% ΔR
Ingress Protection Rating (IP Code)	IP50, IP66 available as option for 6371 (feature code ES)

## Ordering Information

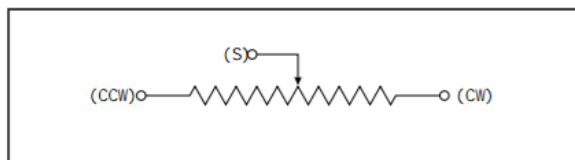


### FEATURE CODES

Center Tap	CT
Linearity Tape	LT
Flatted Shaft	FS
Slotted Shaft	SS
Rear Shaft Extension	RS
Shaft Lock, 6371 only	SL
Seal (IP66), 6371 only	ES

When multiple feature codes are used the P/N shall be in the same sequence as listed in this table (top to bottom).

### CIRCUIT DIAGRAM

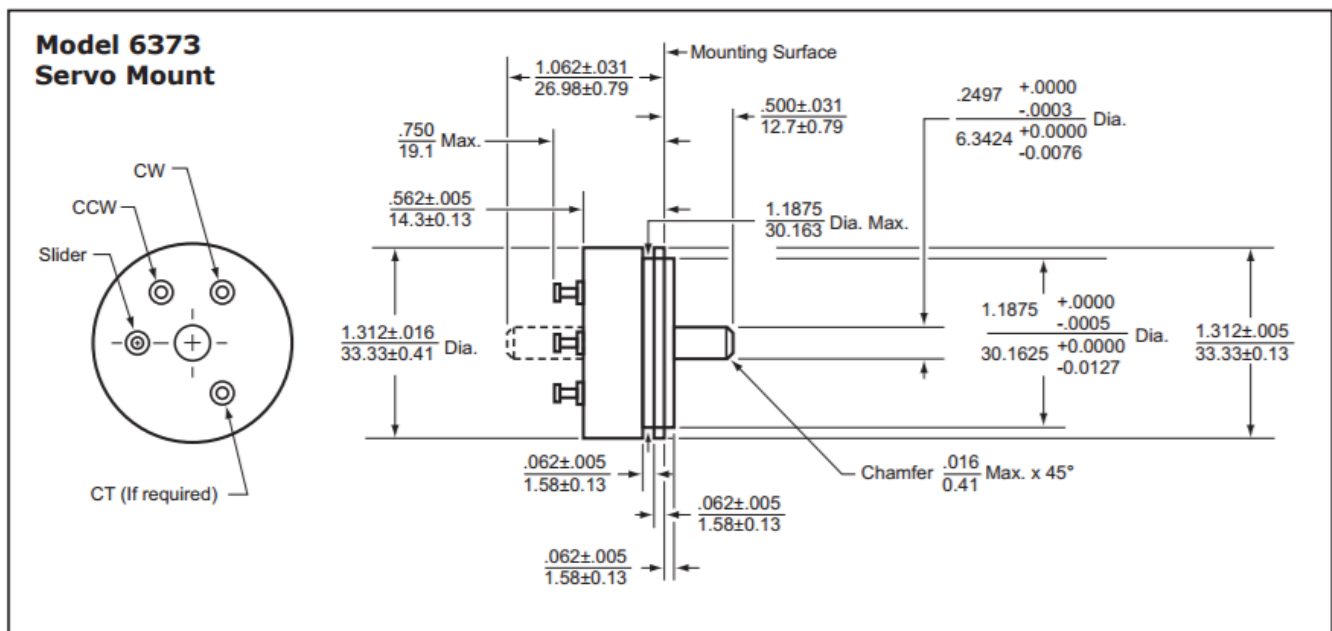
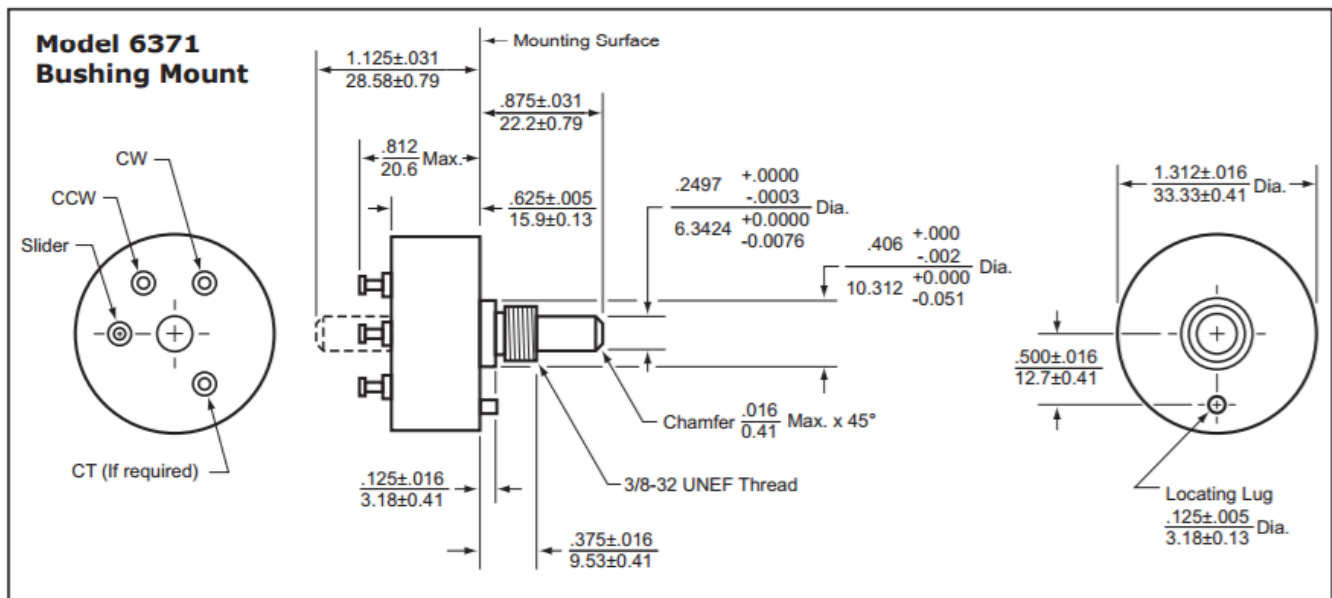


### STANDARD RESISTANCE VALUES

1K	2K	5K	10K	20K	50K
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# Mouser Electronics

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[6371R10KL.5](#) [6373R10KL.1RS](#) [6373R10KL.5](#) [6373R1KL.5](#) [6373R20KL.5](#) [6373R2KL.2](#) [6373R5KL.1](#) [6371R1KL.5](#)  
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