

# Single-Turn Precision Potentiometer

## Model 6273



### Features:

- 1-1/16" diameter
- Conductive plastic technology



## Electrical

Resistance Range	1K to 900K Ohms
Standard Resistance Tolerance	±10%
Minimum Practical Resistance Tolerance	±5%
Independent Linearity <sup>2</sup>	±0.5%
Minimum Practical Independent Linearity	±0.15%
Input Voltage	400 VDC maximum, not to exceed power rating
Power Rating	1.5 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	340° nominal
Electrical Continuity Travel	346° minimum
Tap Tolerance	maximum 0.5% of input voltage
End Voltage	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	4 maximum
Weight	1.0 oz. single gang nominal, 0.7 oz. each added gang
Shaft Runout	maximum T.I.R. 0.001"
Pilot Diameter Runout	maximum T.I.R. 0.001"
Lateral Runout	maximum T.I.R. 0.002"
Shaft Radial Play	maximum 0.001"
Start/Run Torque	maximum 0.5 oz.-in. per gang

<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

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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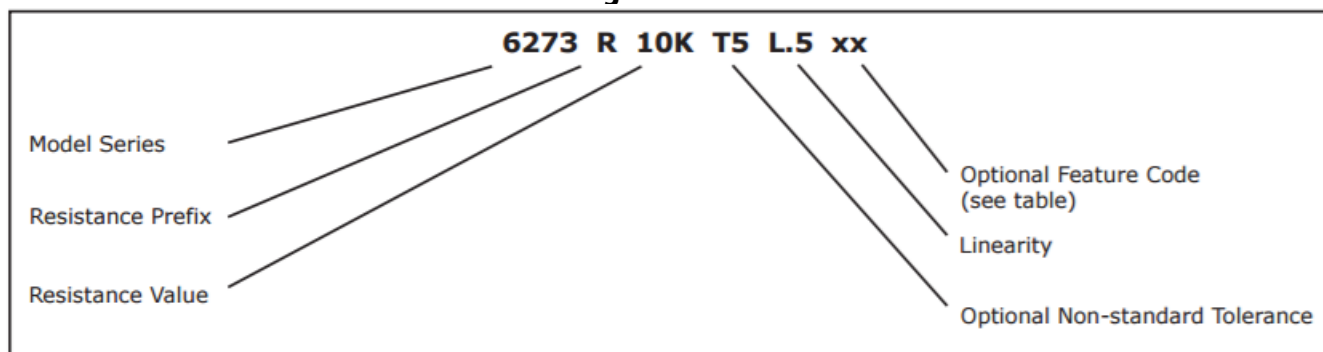
## Model 5311



### 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 Life	25 million shaft revolutions
Rotational Load Life	5 million shaft revolutions at 1.5 Watts & 70°C, maximum 10% ΔR
Ingress Protection Rating (IP Code)	IP50

### Ordering Information

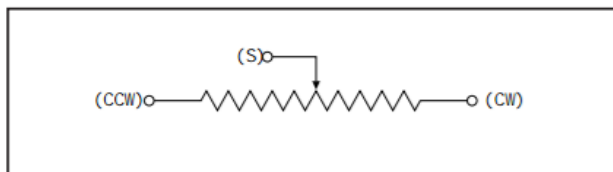


### FEATURE CODES

Center Tap	CT
Linearity Tape	LT
Flatted Shaft	FS
Slotted Shaft	SS
Rear Shaft Extension	RS
Additional Gangs	2G, 3G, or 4G

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

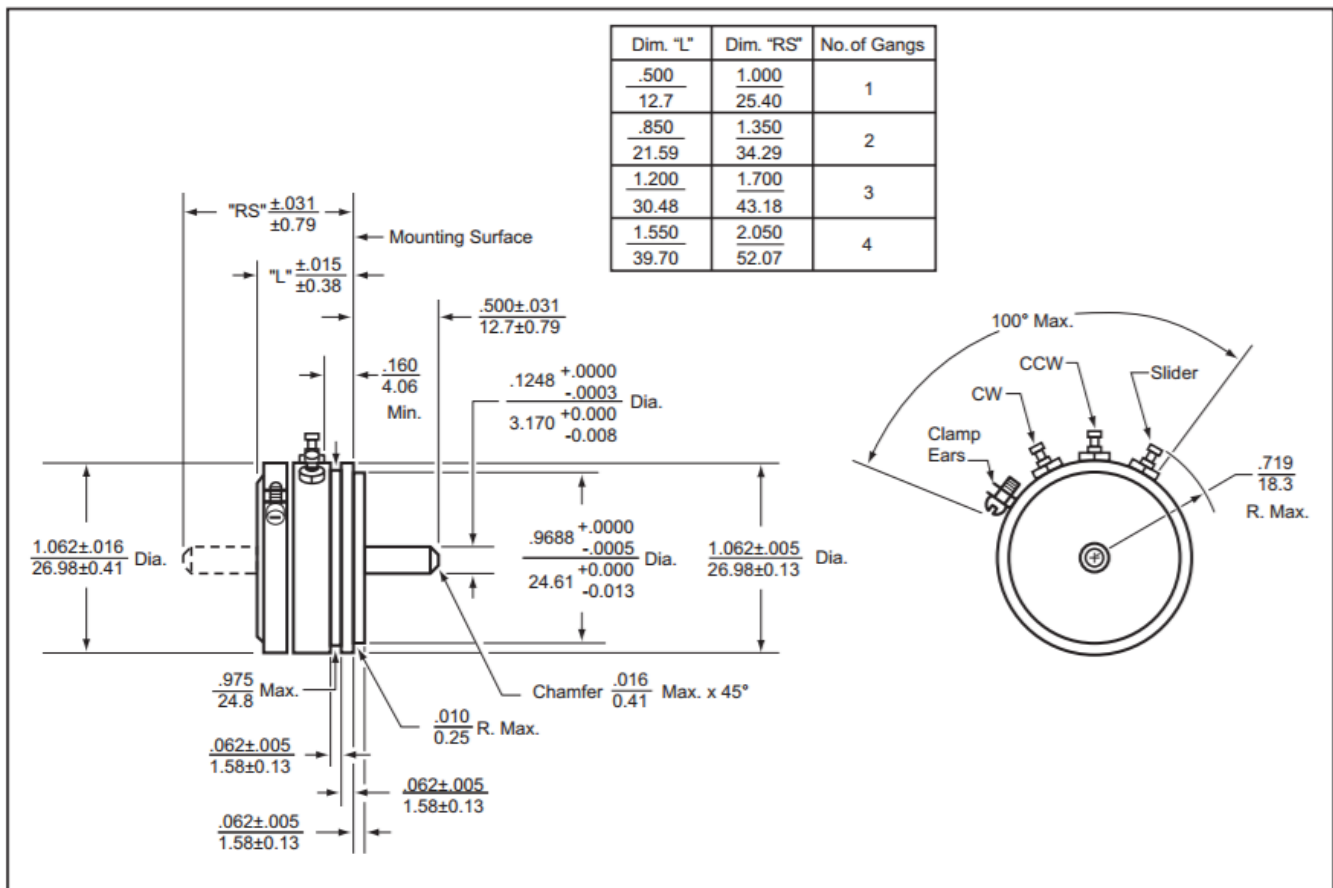
1K	2K	5K	10K	20K	50K
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