

# Single-Turn Precision Potentiometer

## Model 6130 Series



### Features:

- Low profile 7/8" diameter
- Conductive plastic technology
- Bronze bearing



## Models Available

6134	6 mm Shaft, 3/8" Bushing
6137	1/4" Shaft, 3/8" Bushing
6138 for heavy side load applications	1/4" Shaft, 3/8" Bushing
6130-XXX	Custom models are available; Contact Customer Service for special features or tolerances

## Electrical

Resistance Range	1K to 100K Ohms
Standard Resistance Tolerance	±20%
Independent Linearity <sup>2</sup>	±1% (±2% for values greater than 20K Ohms)
Minimum Practical Independent Linearity	±0.5%
Input Voltage	400 VDC maximum, not to exceed power rating
Power Rating	1.0 Watt at 70°C, derating to 0 at 125°C
Dielectric Strength	750 V rms
Insulation Resistance	1,000 Megohms minimum
Output smoothness	0.1% maximum
Actual Electrical Travel	340° ±3° (300° ±3° with stop feature)
Electrical Continuity Travel	350° ±3° (343° ±3° with stop feature)
End Voltage	maximum 0.5% of input voltage
Resolution	essentially infinite
Temperature Coefficient of Resistance	-400 ppm/°C typical
Temperature Coefficient of Output Voltage <sup>3</sup>	±10 ppm/°C typical

## Mechanical

Total Mechanical Travel	360° continuous (343° with stop feature)
Weight	0.6 oz. typical
Backlash	1° maximum
Static Stop Strength	40 in.-oz. maximum
Start/Run Torque	0.5 in.-oz. maximum
Panel Nut Tightening Torque	25 in. lb. Max.
Construction	zinc die cast housing, stainless steel shaft, bronze bearing
Hazardous Materials	Pb free, E.U. RoHS compliant, no REACH SVHC's

<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> 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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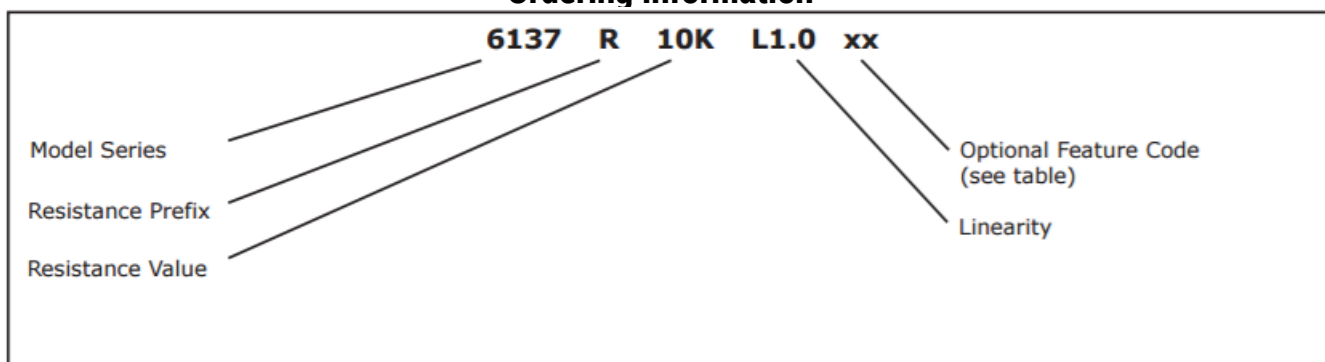
## Model 5311



### Environmental

Operating Temperature Range	-25°C to +125°C
Temperature Cycling (static)	5 cycles, -40°C to +125°C, maximum 15% ΔR
Shock	6 ms sawtooth, 100 G's, 0.1 ms maximum discontinuity
Vibration	10 G's, 10 to 500 Hz, maximum 5% ΔR, 0.1 ms maximum discontinuity
Moisture Resistance	five 24 hour cycles, maximum 25% ΔR
High Temperature Exposure	1,000 hours at 125°C, maximum 0.5% ΔR
Rotational Life (model 6137)	5 million shaft revolutions with no sideload
Rotational Life (model 6138)	10 million shaft revolutions with up to 16 oz sideload at 90 RPM
Ingress Protection Rating (IP Code)	IP50

### Ordering Information

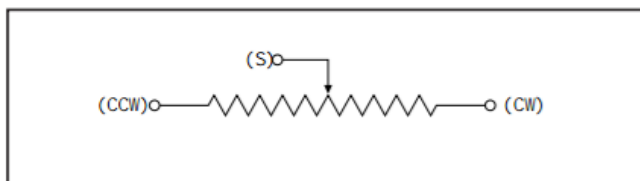


### FEATURE CODES

Center Tap	CT
Stop	ST
Flatted Shaft (slotted is standard)	FS

When multiple Optional 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

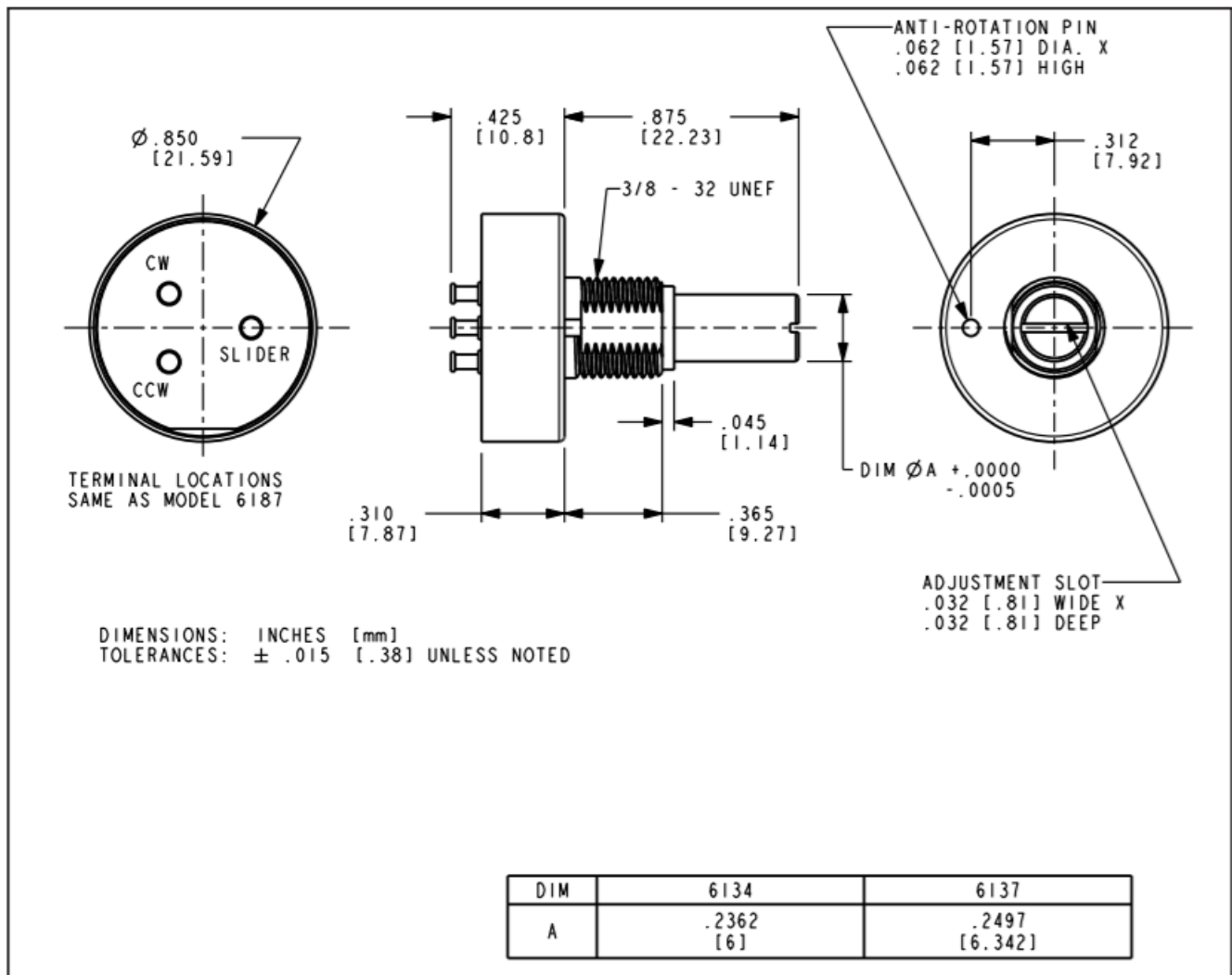
1K	5K	20K	100K
2K	10K	50K	

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## Model 5311



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