

MODEL 6130 SERIES

New Product

Low Profile 7/8" Diameter
Single Turn Conductive Plastic
Bronze Bearing
Position Sensor
Precision Potentiometer

RoHS Compliant



MODEL STYLES

6137	1/4" Shaft, 3/8" Bushing
6138 (For heavy side load applications)	1/4" Shaft, 3/8" Bushing
Special features and tolerances available on request	

ELECTRICAL¹

Resistance Range, Ohms	1K to 100K
Standard Resistance Tolerance	± 20%
Independent Linearity ²	± 1% (2% for values greater than 20K Ohms)
Input Voltage, Maximum	400 Vdc, not to exceed power rating
Power Rating, Watts	1.0 @ 70°C, derating to 0 @ 125°C
Dielectric Strength	750 V rms
Insulation Resistance, Minimum	1,000 Megohms
Output Smoothness, Maximum	0.1%
Actual Electrical Travel, Nominal	340° (300° with stop feature) ± 3°
Electrical Continuity Travel, Nominal	350° (343° with stop feature) ± 3°
End Voltage, Maximum	0.5% of input voltage
Resolution	Essentially Infinite

¹ Specifications subject to change without notice.

² Linearity is measured between 1% and 99% of input voltage.

BI Technologies Corporation

4200 Bonita Place
Fullerton, CA 92835 USA

Website: www.bitechnologies.com

July 25, 2006



MODEL 6130 SERIES

[查询"61381KL1.0XX"供应商](#)

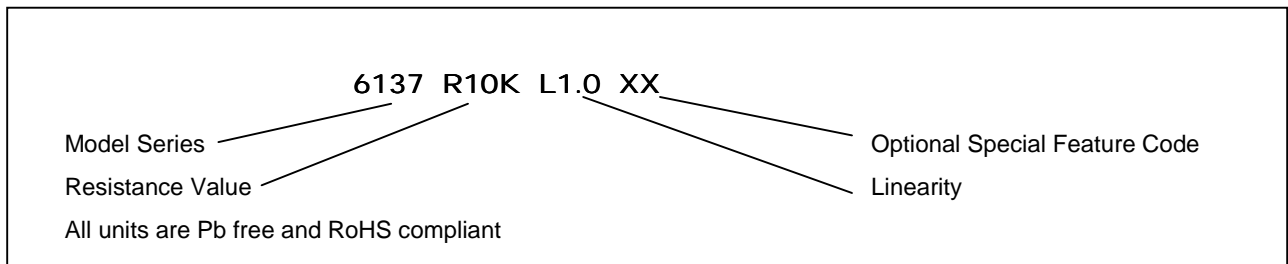
MECHANICAL

Total Mechanical Travel	360° Continuous (343° with stop feature)
Weight, Nominal	.6 oz
Backlash, Maximum	1°
Static Stop Strength, Maximum	40 in.-oz.
Panel Nut Tightening Torque, Maximum	15 in. lb.
Start/Run Torque, Maximum	0.5 in. oz.
Construction	zinc die cast housing, stainless steel shaft, bronze bearing
Hazardous Materials	Pb free, RoHS compliant

ENVIRONMENTAL (MIL-R-39023)

Operating Temperature Range	-40°C to +125°C
Temperature Cycling (Static) 5 cycles, -40°C to +125°C	15% ΔR max.
Shock, 6 ms Sawtooth 100G's	0.1 ms discontinuity max.
Vibration, 10G's, 100 to 500 Hz	5% ΔR max., 0.1 ms discontinuity max.
Moisture Resistance, Five 24 hour cycles	25% ΔR max.
Rotational Life (6137)	5 million shaft rev.
Rotational Life (6138)	10 million shaft rev.

ORDERING INFORMATION³



SPECIAL FEATURE CODES

Center Tap	CT
Stop	ST
Flatted Shaft (Slotted Shaft is Standard)	FS

STANDARD RESISTANCE VALUES, OHMS

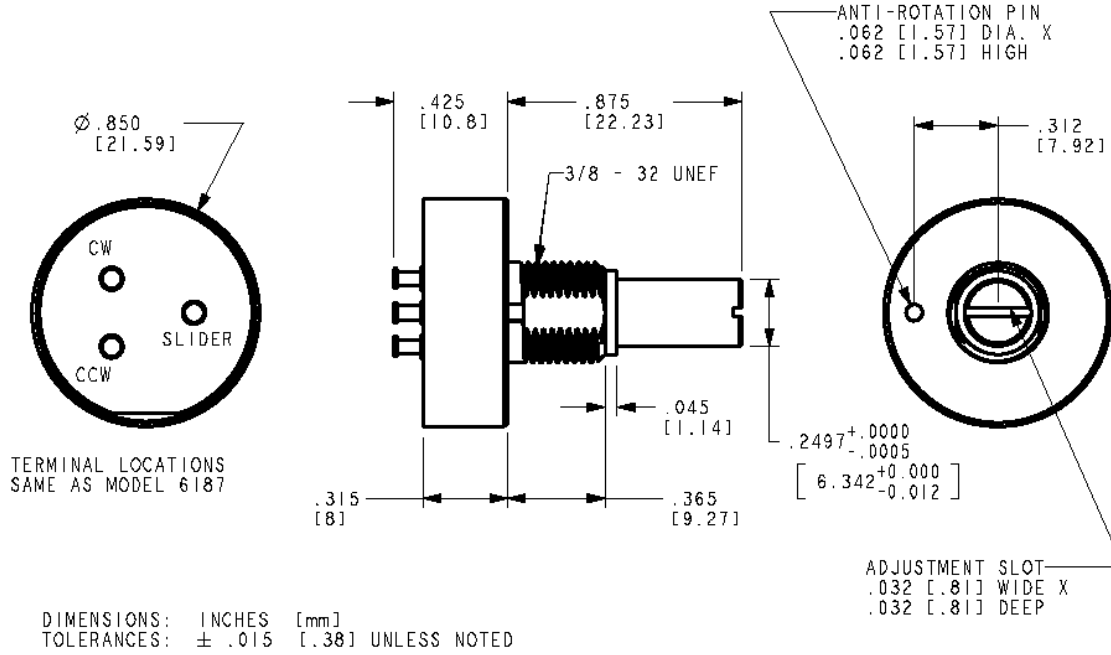
1K	2K	5K	10K	20K	50K	100K
----	----	----	-----	-----	-----	------

³ Contact our customer service for custom designs and features.

[查询"61381KL1.0XX"供应商](#)

OUTLINE DRAWING

MODEL 6137



CIRCUIT DIAGRAM

