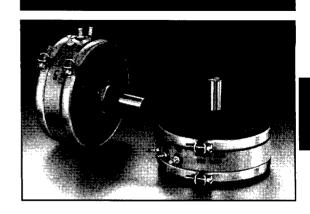
MODEL SERIES 5610

2" DiameterSingle TurnWirewoundPrecision Potentiometer



MODEL STYLES

 5611
 1/4" Shaft, 3/8" Bushing

 5613
 1/4" Shaft, Servo

ELECTRICAL

Resistance Range, Ohms 15 to 80K Standard Resistance Tolerance +5% Minimum Practical Resistance Tolerance ±1.0% Independent Linearity ±1.0% <50 Ohms ±0.5% ≥50 Ohms Minimum Practical Independent Linearity ±1.0%, <50 Ohms ±0.5%. 50-499 Ohms ±0.25%. 500-4.999 Ohms ±0.1%, ≥5K Ohms Power Rating, Watts 3.5 at 70°C derating to 0 at 125°C Dielectric Strenath 1,000V rms Insulation Resistance, Minimum 1,000 Megohms Noise, Maximum 100 Ohms Actual Electrical Travel 356° + 1° ±1° Tap Tolerance End Voltage, Maximum Linearity x Input Voltage

ENVIRONMENTAL (MIL-R-12934)

Operating Temperature Range Static: -65°C to +125°C Dynamic: -40°C to +125°C Temperature Cycling 5 cycles, -65°C to +125°C (10% ΔR) Shock, 6ms Sawtooth 50G's (0.1ms discontinuity max.) Vibration 15G's, 10 to 2,000 Hz (5% Δ R, 0.1ms discontinuity max.) Moisture Resistance Ten 24 hour cycles (3% Δ R) High Temperature Exposure 1.000 hours at 125°C (5% ΔR) Rotational Life 1 Mil. Shaft Rev. Rotational Load Life 1 mil. shaft rev. at rated wattage at 70°C (5% Δ R) Specifications subject to change without notice.

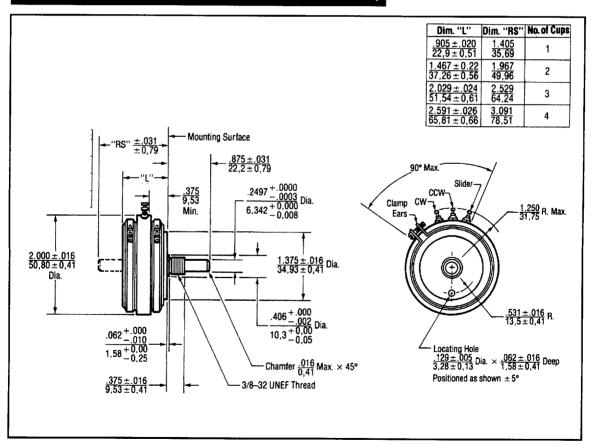


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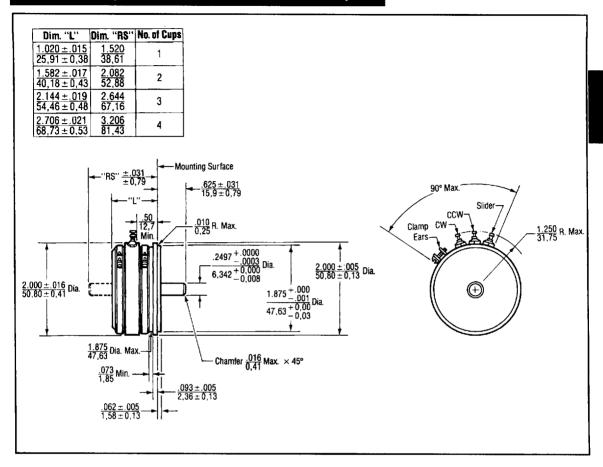
MECHANICAL

Total Mechanical Travel	360° Continuous		
Number of Gangs, Maximum		4	
Weight, Nominal	3.7 oz. Single Gang 1.3 oz. Each Added Gang		
Backlash, Maximum		1°	
Shaft End Play, Maximum		.005"	
	5611	5613	
Shaft Runout, T.I.R., Maximum	.0005"	.001"	
Pilot Diameter Runout, T.I.R., Maximum	.002"	.0015"	
Lateral Runout, T.I.R., Maximum	.004"	.006"	
Shaft Radial Play, Maximum	.004"	.002"	
Starting Torque, Maximum (per gang)	1.5 ozin.	0.8 ozin.	
Running Torque, Maximum (per gang)	1.1 ozin.	0.6 ozin.	

MODEL 5611 (BUSHING MOUNT WITH SLEEVE BEARING)



MODEL 5613 (SERVO MOUNT WITH BALL BEARING)



METRIC CONVERSIONS

1 in.	25,4mm	1 ozin.	0,007 N-m
1 oz.	28.4 gm	1 lbin.	0,113 N-m

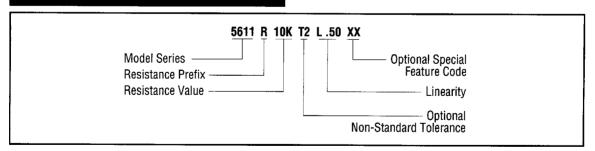
STANDARD RESISTANCE VALUES, OHMS

Total Resistance	Theoretical Resolution (% Nominal)	Tempco of Wire
1K	0.089	*±130 ppm/°C
2K	0.071	*±130 ppm/°C
5K	0.058	±20 ppm/°C
10K	0.053	±20 ppm/°C
20K	0.043	±20 ppm/°C
30K	0.040	± 20 ppm/°C
50K	0.040	± 20 ppm/°C

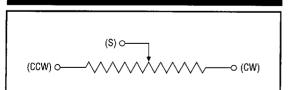
SPECIAL FEATURE CODES

Center Tap	CT	
Linearity Tape	LT	
Rear Shaft Extension	RS	
Flatted Shaft	FS	
Slotted Shaft	SS	
aft Lock (5611 only)		
ditional Gangs 2G or		

ORDERING INFORMATION



CIRCUIT DIAGRAM



NOTES

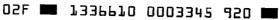
Metric equivalents, based on 1 inch = 25.4mm are rounded to the same number of significant figures as in the original English units and are provided for general information only.

Tolerances unless otherwise specified: Linear = ± .01 inches (.25mm) Angular = ± 2 degrees









Mouser Electronics

Authorized Distributor

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TT Electronics:

5611R1KL.52G 5611R1KL.5FS