Model 5610 Series



Features:

- 2" diameter
- Wirewound





Models

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 Strength	1,000V rms
Insulation Resistance, Minimum	1,000 Megohms
Noise, Maximum	100 Ohms
Actual Electrical Travel	356° + 1°
Tap Tolerance	±1°
End Voltage, Maximum	Linearity x Input Voltage

Environmental

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% ΔR, 0.1ms discontinuity max.)
Moisture Resistance	Ten 24 hour cycles (3% ΔR)
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% ΔR)

Specifications subject to change without notice.



Mechanical

Total Mechanical Travel	3	60° Continuous
Number of Gangs, Maximum		4
Weight, Nominal	3.7 oz. Single Gang	
	1.3 oz. Ea	ach 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.

Standard Resistance Values, Ohms

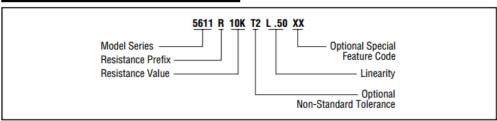
Theoretical		
Total	Resolution	Tempco
Resistance	(% Nominal)	of Wire
1K	0.089	*±130 ppm/°C
2K	0.071	*±130 ppm/°C
5K	0.058	±20 ppm/°C
10K	0.053	±20 ppm/°C
20K	0.043	±20 ppm/°C
30K	0.040	± 20 ppm/°C
50K	0.040	± 20 ppm/°C

^{*} Lower tempco available as a non-standard model (consult factory).

SPECIAL FEATURES

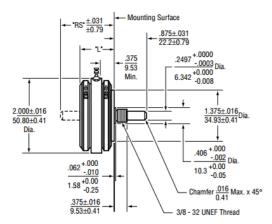
Center Tap	CT
Linearity Tape	LT
Rear Shaft Extension	RS
Flatted Shaft	FS
Slotted Shaft	SS
Shaft Lock (5611 only)	SL
Additional Gangs	2G or 3G or 4G

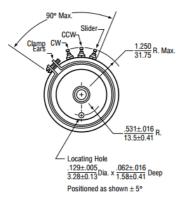
ORDERING INFORMATION





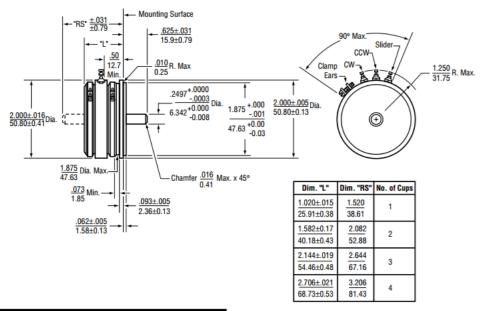
Model 5611 Bushing Mount with Sleeve Bearing





Dim. "L"	Dim. "RS"	No. of Cups	
.905±.020	1.405	1	
22.9±0.51	35.69		
1.467±0.22	1.967	2	
37.26±0.56	49.96	2	
2.029±.024	2.529	3	
51.54±0.61	64.24	,	
2.591±.026	3.091		
65.81±0.66	78.51	4	

Model 5613 Servo Mount with Ball Bearing



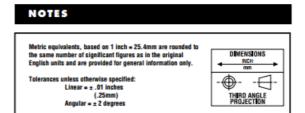
METRIC CONVERSIONS

1 in.	25.4 mm
1 oz.	28.4 gm

1 ozin.	0,007 N-m
1 lbin.	0,113 N-m



(S) O (CCW) O (CW)



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TT Electronics:

<u>56132076-2</u> <u>5613R5KL.52GRS W/RT LN DATA</u> <u>5613R5KL.52GRS</u> <u>5611R10KL.152G</u> <u>5613R10KL.5</u> <u>5613R1KL.5</u> <u>5613R5KL.1CT</u> <u>5611R1KL.25</u> <u>5611R20KL.5CT</u> <u>5613R10KL.5CT</u> <u>5611R1KL.25RS2G</u> <u>5613R5KL.1CTFS</u> <u>5611R20KL.5</u> <u>5611R1KL.25RS</u> <u>5615R1KL.25</u>