Multi-Turn Precision Potentiometer

Model 7246



Features:

- 7/8" diameter
- 10-turn
- Wirewound



Electrical

Resistance Range, Ohms	10 to 125K
Standard Resistance Tolerance	±5%
Minimum Practical Resistance Tolerance	±3%
Independent Linearity	±0.25%
Minimum Practical Independent Linearity	±0.25%, <100 Ohms
	±0.15%, ≥ 100 Ohms
Power Rating, Watts	2.0 at 25°C derating to 0 at 85°C
Dielectric Strength	1,000V rms
Insulation Resistance, Minimum	1,000 Megohms
Noise, Maximum	100 Ohms
Actual Electrical Travel	3600° + 10° - 0°
Tap Tolerance	±5°, ≤20 Ohms
	±3°, 21-50 Ohms
	±2°, >50 Ohms
End Voltage, Maximum (% of input voltage)	0.5%, <100 Ohms
	0.25%, ≥100 Ohms

Environmental

Operating Temperature Range	-25°C to +85°C
Temperature Cycling	5 cycles, -25°C to +85°C (10% ΔR)
Shock, 6ms Sawtooth	50G's (0.1ms discontinuity max.)
Vibration	10G's, 10 to 500 Hz (2% Δ R, 0.1ms discontinuity max.)
Moisture Resistance	Five 24 hour cycles (25% ΔR)
High Temperature Exposure	Mechanical Operation at 85°C (0.5% ΔR)
Rotational Load Life	1 mil. shaft rev. (10% ΔR)

Specifications subject to change without notice.

Available in a Hybrid version – contact factory for details.



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Mechanical

Total Mechanical Travel	3600° + 10° - 0°
Number of Gangs, Maximum	1
Weight, Nominal	1.25 oz.
Static Stop Strength	60 ozin.
Backlash, Maximum	2°
Panel Nut Tightening Torque, Maximum	25 lbin.
Shaft End Play, Maximum	.015"
Shaft Radial Play, Maximum	.005"
Start/Run Torque, Maximum	0.8 / 0.6 ozin.

Standard Resistance Values, Ohms

Theoretical				
Total	Resolution	Tempco		
Resistance	(% Nominal)	of Wire		
10	0.083	+ 800 ppm/°C *		
50	0.048	+ 800 ppm/°C *		
100	0.040	+ 800 ppm/°C *		
200	0.033	+ 800 ppm/°C *		
500	0.031	±20 ppm/°C		
1K	0.028	±20 ppm/°C		
2K	0.025	±20 ppm/°C		
5K	0.020	±130 ppm/°C *		
10K	0.018	±130 ppm/°C *		
20K	0.016	±130 ppm/°C *		
50K	0.012	±20 ppm/°C		
100K	0.011	±20 ppm/°C		

^{*} Lower tempco available as a special model.

Special Features

Center Tap	CT
Linearity Tape	LT
Flatted Shaft	FS
Shaft Lock	SL

General Note

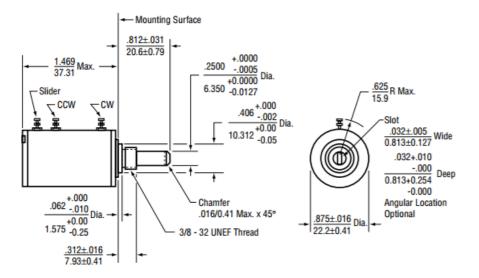
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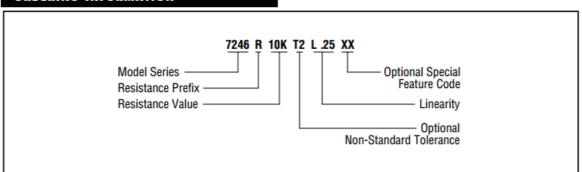
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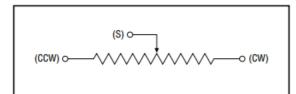
ORDERING INFORMATION



MATCHING TURNS COUNTING DIALS

2606, 2606S, 2607, 2607S, 2626, 2627, 2646, 2646S, 2647, 2647S, 2126, RB

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



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