

# Precision Potentiometer

## Model C



### Features:

- 1-13/16" diameter
- 3-turn
- Wirewound

### ELECTRICAL

Resistance Range, Ohms	5 to 194.7K
Standard Resistance Tolerance	< 100 Ohms = $\pm 5\%$ , $\geq 100$ Ohms = $\pm 3\%$
Minimum Practical Resistance Tolerance	$\pm 1\%$
Independent Linearity	$\pm 0.50\%$
Minimum Practical Independent Linearity	$\pm 0.5\%$ , $\leq 25$ Ohms $\pm 0.25\%$ , 26-99 Ohms $\pm 0.15\%$ , 100-1K Ohms $\pm 0.10\%$ , $> 1K$ Ohms
Power Rating, Watts	3.0 at 40°C derating to 0 at 85°C
Input Voltage, Maximum	1,000Vdc not to exceed power rating
Dielectric Strength	1,000V rms
Insulation Resistance, Minimum	1,000 Megohms
Noise, Maximum	500 Ohms: RT $\leq 800$ Ohms 250 Ohms: RT $> 800$ Ohms
Actual Electrical Travel	1080° + 4° - 0°
Tap Tolerance	$\leq 25$ Ohms = $\pm 2^\circ$ , $< 100$ Ohms = $\pm 1.5^\circ$ $\geq 100$ Ohms = $\pm 1.0^\circ$
End Voltage, Maximum (% of Input Voltage)	$< 100\Omega = 1\%$ , $> 100\Omega = .5\%$

### ENVIRONMENTAL (MIL-R-12934)

Operating Temperature Range	Static: -65°C to +85°C Dynamic: -40°C to +85°C
Temperature Cycling	5 cycles, -65°C to +85°C (5% $\Delta R$ )
Shock, 6ms Sawtooth	100G's (0.1ms discontinuity max.)
Vibration	10G's, 10 to 500 Hz (5% $\Delta RT$ , 0.1ms discontinuity max.)
Moisture Resistance	Ten 24 hour cycles (3% $\Delta R$ )
High Temperature Exposure	1,000 hours at 85°C (5% $\Delta R$ )
Rotational Load Life	2 mil. shaft rev. + 900 hrs. at rated wattage at 40°C (5% $\Delta R$ )

Specifications subject to change without notice.  
Available in a Hybrid version – contact factory for details.

### 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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### MECHANICAL

Total Mechanical Travel	1080° + 4° - 0°
Number of Gangs, Maximum	3
Weight, Nominal (Single Gang)	2.5 oz.
Static Stop Strength	350 oz.-in.
Backlash, Maximum	1°
Panel Nut Tightening Torque, Maximum	25 lb.-in.
Shaft End Play, Maximum	.005"
Shaft Runout, T.I.R., Maximum	.0005"
Pilot Diameter Runout, T.I.R., Maximum	.002"
Lateral Runout, T.I.R., Maximum	.003"
Shaft Radial Play, Maximum	.004"
Start/Run Torque, Maximum (per gang)	3.0 oz.-in.

### STANDARD RESISTANCE VALUES, OHMS

Total Resistance	Theoretical Resolution (% Nominal)	Tempco of Wire
100	0.084	±20 ppm/°C
200	0.074	± 20 ppm/°C
500	0.056	± 20 ppm/°C
1K	0.051	+ 130 ppm/°C *
2K	0.044	+ 130 ppm/°C *
5K	0.032	+ 130 ppm/°C *
10K	0.027	+ 130 ppm/°C *
20K	0.021	± 20 ppm/°C
50K	0.017	± 20 ppm/°C
100K	0.015	±20 ppm/°C

\* Lower tempco available - contact factory for details.

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### METRIC CONVERSIONS

1 in.	25.4mm
1 oz.	28.4 gm

1 oz.-in.	0,007 N-m
1 lb.-in.	0,113 N-m

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### SPECIAL FEATURE CODES

Center Tap	CT
Linearity Tape	LT
Rear Shaft Extension	RS
Flatted Shaft	FS
Slotted Shaft	SS
Shaft Lock	SL
Color Coded	CC
Additional Gangs	2G or 3G

### 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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