Model C

Features:

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





ELECTRICAL

Resistance Range, Ohms	5 to 194.7K
Standard Resistance Tolerance	< 100 Ohms = ±5%, ≥ 100 Ohms = ±3%
Minimum Practical Resistance Tolerance	±1%
Independent Linearity	±0.50%
Minimum Practical Independent Linearity	±0.5%, ≤ 25 Ohms
	±0.25%, 26-99 Ohms
	±0.15%, 100-1K Ohms
	±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 ≤ 800 Ohms
	250 Ohms: RT > 800 Ohms
Actual Electrical Travel	1080° + 4° – 0°
Tap Tolerance	≤ 25 Ohms = ±2°, < 100 Ohms = ±1.5°
	≥ 100 Ohms = ±1.0°
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% ΔR)
Shock, 6ms Sawtooth	100G's (0.1ms discontinuity max.)
Vibration	10G's, 10 to 500 Hz (5% Δ RT, 0.1ms discontinuity max.)
Moisture Resistance	Ten 24 hour cycles (3% ΔR)
High Temperature Exposure	1,000 hours at 85°C (5% AR)
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.

Model C



MECHANICAL

Total Mechanical Travel	1080° + 4° - 0°
Number of Gangs, Maximum	3
Weight, Nominal (Single Gang)	2.5 oz.
Static Stop Strength	350 ozin.
Backlash, Maximum	1°
Panel Nut Tightening Torque, Maximum	25 lbin.
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 ozin.

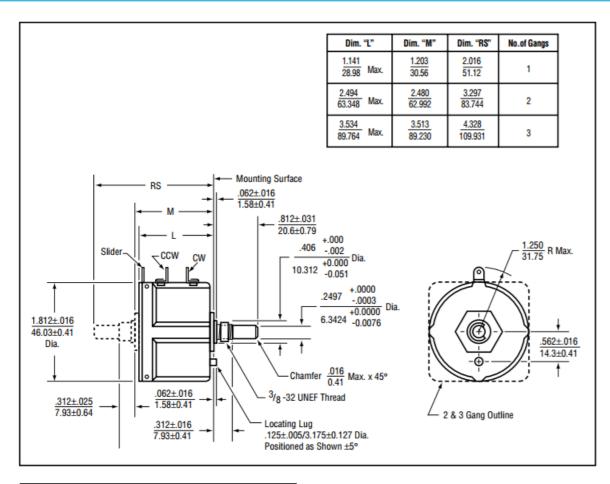
STANDARD RESISTANCE VALUES, OHMS

Total	Theoretical	Tompoo
Total Resistance	Resolution (% Nominal)	Tempco of Wire
nesistance	(% Nollillal)	OI WIIG
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

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Model C





METRIC CONVERSIONS

1 in.	25.4mm
1 oz.	28.4 gm

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

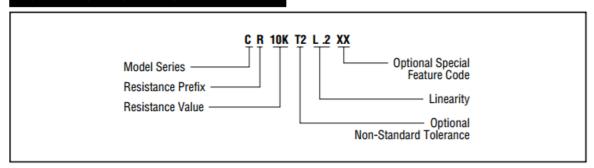
Model C



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

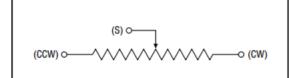
ORDERING INFORMATION



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

