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 0hms
	±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	\leq 25 Ohms = \pm 2°, $<$ 100 Ohms = \pm 1.5°
	≥ 100 Ohms = ±1.0°
End Voltage, Maximum (% of Input Voltage)	$<100\Omega = 1\%, >100\Omega = .5\%$

ENVIRONMENTAL (MIL-R-12934)

Static: -65°C to +85°C
Dynamic: -40°C to +85°C
5 cycles, -65°C to +85°C (5% ΔR)
100G's (0.1ms discontinuity max.)
10G's, 10 to 500 Hz (5% ART, 0.1ms discontinuity max.)
Ten 24 hour cycles (3% ΔR)
1,000 hours at 85°C (5% AR)
2 mil. shaft rev. + 900 hrs. at rated wattage at 40°C (5% ΔR)

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

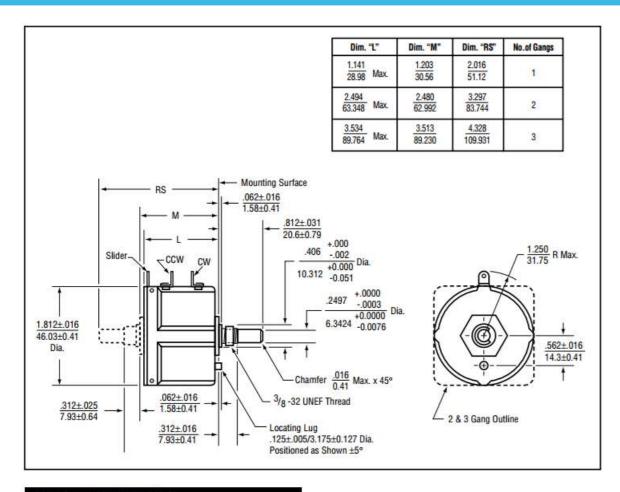
Total	Theoretical Resolution	Tempco
Resistance	(% Nominal)	of Wire
100	0.084	±20 ppm/°C
200	0.074	± 20 ppm/°C
500	0.056	± 20 ppm/°C
1K	0.051	+ 130 ppm/°C *
2K	0.044	+ 130 ppm/°C *
5K	0.032	+ 130 ppm/°C *
10K	0.027	+ 130 ppm/°C *
20K	0.021	± 20 ppm/°C
50K	0.017	± 20 ppm/°C
100K	0.015	±20 ppm/°C

TT Electronics | BI Technologies

Issue B 04/2019 Page 2

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

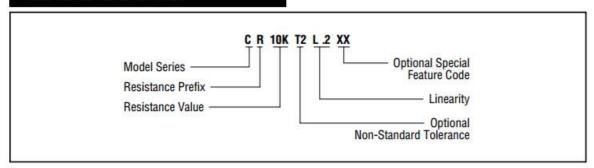
Model C



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

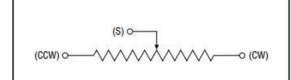
ORDERING INFORMATION



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

