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 0hms = ±1.0°
End Voltage, Maximum (% of Input Voltage)	$<100\Omega = 1\%, >100\Omega = .5\%$

ENVIRONMENTAL (MIL-R-12934)

Temperature Cycling 5 cycles, -65°C to +85°C (5% \(\Delta \) Shock, 6ms Sawtooth 100G's (0.1ms discontinuity ma Vibration 10G's, 10 to 500 Hz (5% \(\Delta \)RT, 0.1ms discontinuity ma Moisture Resistance Ten 24 hour cycles (3% \(\Delta \) High Temperature Exposure 1,000 hours at 85°C (5% \(\Delta \)	Operating Temperature Range	Static: -65°C to +85°C
Shock, 6ms Sawtooth Vibration Moisture Resistance High Temperature Exposure 100G's (0.1ms discontinuity math 100G's, 10 to 500 Hz (5% ΔRT, 0.1ms discontinuity math 100G's,		Dynamic: -40°C to +85°C
Vibration10G's, 10 to 500 Hz (5% Δ RT, 0.1ms discontinuity maMoisture ResistanceTen 24 hour cycles (3% Δ High Temperature Exposure1,000 hours at 85°C (5% Δ	Temperature Cycling	5 cycles, -65°C to +85°C (5% ΔR)
Moisture Resistance Ten 24 hour cycles (3% Δ High Temperature Exposure 1,000 hours at 85°C (5% Δ	Shock, 6ms Sawtooth	100G's (0.1ms discontinuity max.)
High Temperature Exposure 1,000 hours at 85°C (5% Δ	Vibration	10G's, 10 to 500 Hz (5% Δ RT, 0.1ms discontinuity max.)
	Moisture Resistance	Ten 24 hour cycles (3% ΔR)
Rotational Load Life 2 mil. shaft rev. + 900 hrs. at rated wattage at 40° C (5% Δ	High Temperature Exposure	1,000 hours at 85°C (5% ΔR)
	Rotational Load Life	2 mil. shaft rev. + 900 hrs. at rated wattage at 40°C (5% Δ R)

Specifications subject to change without notice.

Available in a Hybrid version – contact factory for details.

Model C



MECHANICAL

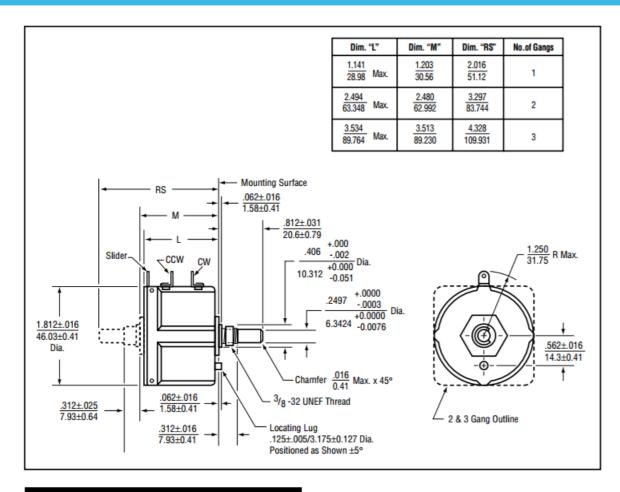
Total Mechanical Travel	1080° + 4° - 0°
Number of Gangs, Maximum	3
Weight, Nominal (Single Gang)	2.5 oz.
Static Stop Strength	350 ozin.
Backlash, Maximum	1°
Panel Nut Tightening Torque, Maximum	25 lbin.
Shaft End Play, Maximum	.005"
Shaft Runout, T.I.R., Maximum	.0005"
Pilot Diameter Runout, T.I.R., 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 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

Model C





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1 in.	25.4mm
1 oz.	28.4 gm

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

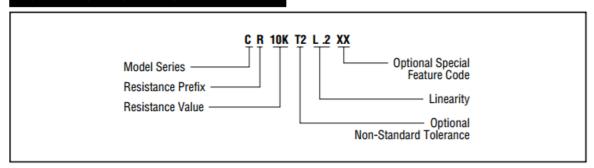
Model C



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

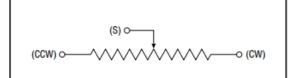
ORDERING INFORMATION



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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

<u>CR250L.5</u> <u>CR5KL.5</u> <u>CR10KL.5</u> <u>CR100KL.5</u> <u>CR100KL.5</u> <u>CR1KL.5</u> <u>CR500L.5</u> <u>CR2KL.5</u> <u>CR100L.5</u> <u>CR20KL.5</u> <u>CR200L.5</u> <u>CR200L.5</u>