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)

| 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% ΔR) |
| 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

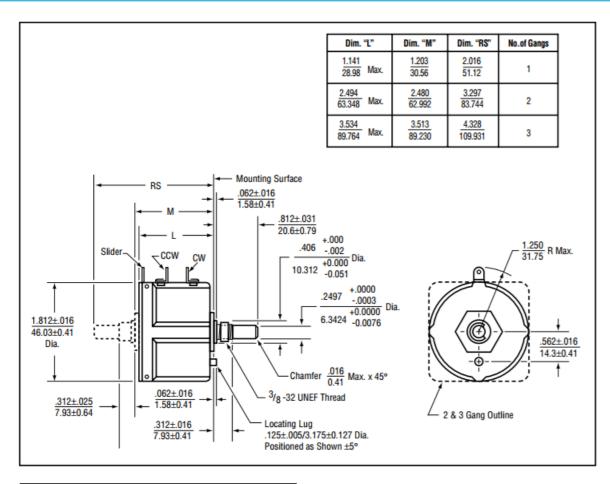
| Total Mechanical Travel | 1080° + 4° - 0° |
|--|-----------------|
| Number of Gangs, Maximum | 3 |
| Weight, Nominal (Single Gang) | 2.5 oz. |
| Static Stop Strength | 350 ozin. |
| Backlash, Maximum | 1° |
| Panel Nut Tightening Torque, Maximum | 25 lbin. |
| Shaft End Play, Maximum | .005" |
| Shaft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

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 |

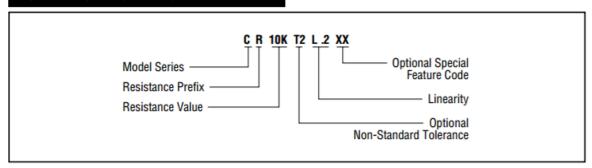
Model C



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 |

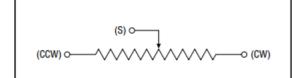
ORDERING INFORMATION



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



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>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>CR200L.5</u> <u>CR200L.5</u> <u>CR200L.5</u> <u>CR200L.5 <u>CR200L.5</u> <u>CR200L.5 <u>CR200L.5</u> <u>CR200L.5 <u>CR200L.5</u> <u>CR200L.5 <u>CR200L.5 <u>CR200L.5 <u>CR200L.5 <u>CR200L.5 <u>CR200L.5 <u>CR200L.5 <u>CR200L.5 <u>CR</u></u></u></u></u></u></u></u></u></u></u></u></u>