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	\leq 25 Ohms = ±2°, < 100 Ohms = ±1.5°		
	\geq 100 Ohms = ±1.0°		
End Voltage, Maximum (% of Input Voltage)	<100Ω = 1%, >100Ω = .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.

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. TT Electronics | BI Technologies 413 Rood RD, Suite 7 Calexico, CA 92231 Ph: +1 714 447 2345 www.ttelectronics.com/bi-technologies

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

Theoretical Resolution (% Nominal)	Tempco of Wire
0.084	±20 ppm/°C
0.074	± 20 ppm/°C
0.056	± 20 ppm/°C
0.051	+ 130 ppm/°C *
0.044	+ 130 ppm/°C *
0.032	+ 130 ppm/°C *
0.027	+ 130 ppm/°C *
0.021	± 20 ppm/°C
0.017	± 20 ppm/°C
0.015	±20 ppm/°C
	Resolution (% Nominal) 0.084 0.074 0.056 0.051 0.044 0.032 0.027 0.021 0.017

Electronics

Model C



METRIC CONVERSIONS

1 in.	25.4mm	1 ozin.	0,007 N-m
1 oz.	28.4 gm	1 lbin.	0,113 N-m

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.

TT Electronics | BI Technologies 413 Rood RD, Suite 7 Calexico, CA 92231 Ph: +1 714 447 2345 www.ttelectronics.com/bi-technologies

Model C



2G or 3G

SPECIAL FEATURE CODESCenter TapCTLinearity TapeLTRear Shaft ExtensionRSFlatted ShaftFSSlotted ShaftSSShaft LockSLColor CodedCC

ORDERING INFORMATION

Additional Gangs



MATCHING TURNS COUNTING DIALS

2606, 2606S, 2607, 2607S, 2626, 2627, 2646, 2646S, 2647, 2647S, 2126, RB

CIRCUIT DIAGRAM



NOTES



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.

TT Electronics | BI Technologies 413 Rood RD, Suite 7 Calexico, CA 92231

Ph: +1 714 447 2345 www.ttelectronics.com/bi-technologies