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 = ±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 4200 Bonita Place, Fullerton, CA USA 92835 | Ph: +1 714 447 2345 www.ttelectronics.com | sensors@ttelectronics.com





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 Resistance	Theoretical Resolution (% Nominal)	Tempco 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
* Lov	ver tempco available - contact factory for de	tails.

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 4200 Bonita Place, Fullerton, CA USA 92835 | Ph: +1 714 447 2345 www.ttelectronics.com | sensors@ttelectronics.com



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 4200 Bonita Place, Fullerton, CA USA 92835 |Ph: +1 714 447 2345 www.ttelectronics.com | sensors@ttelectronics.com

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



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 4200 Bonita Place, Fullerton, CA USA 92835 |Ph: +1 714 447 2345 www.ttelectronics.com | sensors@ttelectronics.com