Model 7274 / 7276

#### Features:

- 7/8" diameter
- Plastic 10-turn
- Wirewound





### **Model Styles**

7274	6mm Shaft, 3/8" Bushing
7276	1/4" Shaft, 3/8" Bushing

### Electrical

Resistance Range, Ohms	100 to 100K
Standard Resistance Tolerance	±5%
Independent Linearity	±0.25%
Power Rating, Watts	2.0 at 25°C derating to 0 at 105°C
Dielectric Strength	1,000V rms
Insulation Resistance, Minimum	1,000 Megohms
Noise, Maximum	100 Ohms
Actual Electrical Travel	3600° + 10° - 0°
Tap Tolerance	±3°
End Voltage, Maximum (% of input voltage)	0.25%

### Environmental

Operating Temperature Range	-25°C to +105°C
Temperature Cycling	5 cycles, -25°C to +105°C (5% ΔR)
Shock, 6ms Sawtooth	100G's (0.1ms discontinuity max.)
Vibration	10G's, 10 to 500 Hz (5% ∆R, 0.1ms discontinuity max.)
Moisture Resistance	Five 24 hour cycles (3% $\Delta R$ )
High Temperature Exposure	1,000 hours at 105°C (5% ΔR)
Rotational Load Life	500K shaft rev. + 900 hrs. at rated wattage at 25°C (5% $\Delta$ R)

Specifications subject to change without notice.

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### Mechanical

Total Mechanical Travel	3600° + 15° – 0°
Number of Gangs, Maximum	1
Weight, Nominal	0.42 oz.
Static Stop Strength, Maximum	60 ozin.
Backlash, Maximum	2°
Panel Nut Tightening Torque, Maximum	8 lbin.
Shaft End Play, Maximum	.010"
Shaft Radial Play, Maximum	.010"
Start/Run Torque, Maximum	1.5 ozin.

## **Standard Resistance Values, Ohms**

	Theo	retical	
Total	Reso	lution	Tempco
Resistance	(% No	ominal)	of Wire
100	0.0	059	±20 ppm/°C
200	0.0	037	±20 ppm/°C
500	0.0	030	±20 ppm/°C
1K	0.0	024	±20 ppm/°C
2K	0.0	020	±20 ppm/°C
5K	0.0	018	±20 ppm/°C
10K	0.0	017	±20 ppm/°C
20K	0.0	016	±20 ppm/°C
50K	0.0	010	±20 ppm/°C
100K	0.0	009	±20 ppm/°C
METRIC CONVERSIONS			
1 in.	25.4 mm	1 ozin.	0,007 N-m
1 oz.	28.4 gm	1 lbin.	0,113 N-m

### **Special Features**

Center Tap	CT
Linearity Tape	LT
Flatted Shaft	FS
Shaft Lock	SL
Gold Plated Solder Lug Terminals (see optional terminal configuration)	FT

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#### OPTIONAL TERMINAL CONFIGURATION



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## Model 7274 / 7276



ORDERING INFORMATION	
Model Series	Linearity
Resistance Prefix	Resistance Value

#### MATCHING TURNS COUNTING DIALS

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

CIRCUIT DIAGRAM

#### NOTES

