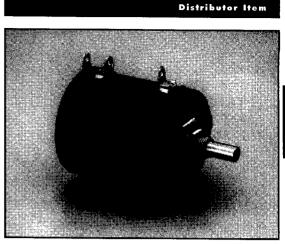
MODEL A

1-13/16" Diameter

10-Turn

Wirewound

Precision Potentiometer



ELECTRICAL

10 to 500K	
< 100 Ohms = $\pm 5\%$, ≥ 100 Ohms = $\pm 3\%$	
±1%	
$< 300 \text{ Ohms} = \pm 0.50\%, \ge 300 \text{ Ohms} = \pm 0.25\%$	
±0.15%, ≤ 20 Ohms	
±0.10%, < 100 Ohms	
±0.075%, < 300 Ohms	
±0.05%, ≥ 300 Ohms	
5.0 at 40°C derating to 0 at 85°C	
1,000V dc not to exceed power rating	
1,000V rms	
1,000 Megohms	
500 Ohms: RT ≤ 2613.7 Ohms	
250 Ohms: RT > 2613.7 Ohms	
$3600^{\circ} + 4^{\circ} - 0^{\circ}$	
\leq 20 Ohms = ±3°, < 100 Ohms = ±2°	
$< 300 \text{ Ohms} = \pm 1.5^{\circ}, \ge 300 \text{ Ohms} = \pm 1^{\circ}$	
10 Ohms = 3%, 25 Ohms = 1.2%	
50 Ohms = 0.6%, ≥100 Ohms = 0.25%	

This model available in a hybrid version - contact factory for details.

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	6 hours, 10 to 55 Hz (5% Δ RT, 0.1ms discontinuity max.)	
Moisture Resistance	Ten 24 hour cycles (3% ∆R)	
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% AR)	
Specifications subject to change without notice		

2-5

D

Specifications subject to change without notice.



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MECHANICAL

Total Mechanical Travel	3600° + 4° – 0°
Number of Gangs, Maximum	3
Weight, Nominal (Single Gang)	4.4 oz.
Static Stop Strength	550 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	.003"
Start/Run Torque, Maximum (per gang)	3.0 ozin.

STANDARD RESISTANCE VALUES, OHMS

Total Resistance	Theoretical Resolution (% Nominal)	Tempco of Wire
10	0.082	+800 ppm/°C *
25	0.040	+800 ppm/°C *
50	0.031	+800 ppm/°C *
100	0.040	±20 ppm/°C
200	0.031	±20 ppm/°C
500	0.024	±20 ppm/°C
1K	0.021	±20 ppm/°C
2К	0.016	±20 ppm/°C
5K	0.014	+130 ppm/°C *
10K	0.011	+130 ppm/°C *
20K	0.009	+130 ppm/°C *
50K	0.007	+130 ppm/°C *
100K	0.006	±20 ppm/°C
200K	0.005	±20 ppm/°C
300K	0.005	±20 ppm/°C
500K	0.005	±20 ppm/°C
	* Lower tempco available as a special mod	el

METRIC CONVERSIONS

Bi technologies

1 in.	25,4mm	1 ozin.	0,007 N-m
1 oz.	28.4 gm	1 lbin.	0,113 N-m

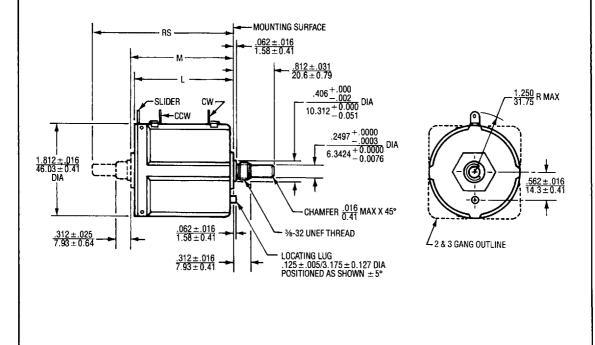
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Model A

OUTLINE DIMENSIONS

	Dim. "L"	Dim. "M"	Dim. "RS"	No.of Gangs
	2.016 51.21 MAX.	2.062±.031	2.875±.031	4
	51.21	52.38±0.79	73.03±0.79	1
	4.243 MAX	4.205±.031	5.016±.031	0
	107.78	106.81±0.79	127.41±.0.79	2
1	6.143 156.04 MAX.	6.100±.031		0
	156.04	154.94±0.79	175.42±0.79	3



2

Bi technologies

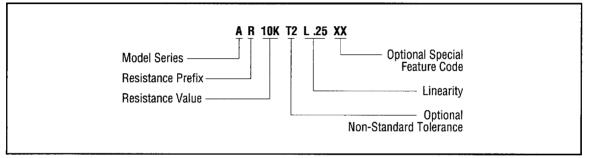
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SPECIAL FEATURE CODES

СТ
LT
RS
FS
SS
SL
CC
2G or 3G

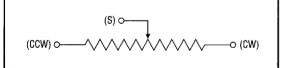
ORDERING INFORMATION



MATCHING TURNS COUNTING DIALS

2606, 2607, 2626, 2627, 2646, 2647, 2157, 2126, 2167, 2606S, 2607S, 2646S, 2647S, RB

CIRCUIT DIAGRAM



D

NOTES

Metric equivalents, based on 1 inch = 25.4mm are rounded to the DIMENSIONS same number of significant figures as in the original English units INCH mm and are provided for general information only. Tolerances unless otherwise specified: _ f Linear = ± .01 inches (.25mm) THIRD ANGLE PROJECTION Angular = ± 2 degrees

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Model A

Mouser Electronics

Authorized Distributor

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

TT Electronics: AR100L.25 AR10L.25