# **Model A Series**

# Features:

- 1-13/16" diameter
- 10-turn
- Wirewound





### ELECTRICAL

	_
Resistance Range, Ohms	10 to 500K
Standard Resistance Tolerance	< 100 Ohms = ±5%, ≥ 100 Ohms = ±3%
Minimum Practical Resistance Tolerance	±1%
Independent Linearity	< 300 Ohms = ±0.50%, ≥ 300 Ohms = ±0.25%
Minimum Practical Independent Linearity	±0.15%, ≤ 20 Ohms
	±0.10%, < 100 Ohms
	±0.075%, < 300 Ohms
	$\pm 0.05\%, \geq 300 \text{ Ohms}$
Power Rating, Watts	5.0 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 ≤ 2613.7 Ohms
	250 Ohms: RT > 2613.7 Ohms
Actual Electrical Travel	3600° + 4° – 0°
Tap Tolerance	≤ 20 Ohms = ±3°, < 100 Ohms = ±2°
	< 300 Ohms = ±1.5°, ≥ 300 Ohms = ±1°
End Voltage, Maximum	10 Ohms = 3%, 25 Ohms = 1.2%
(% of input voltage)	50 Ohms = 0.6%, ≥100 Ohms = 0.25%

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

### ENVIRONMENTAL (MIL-R-12934)

Static: -65°C to +85°C
Dynamic: -40°C to +85°C
5 cycles, -65°C to +85°C (5% ΔR)
100G's (0.1ms discontinuity max.)
6 hours, 10 to 55 Hz (5% ΔRT, 0.1ms discontinuity max.)
Ten 24 hour cycles (3% ΔR)
1,000 hours at 85°C (5% ΔR)
2 mil. shaft rev. + 900 hrs. at rated wattage at 40°C (5% $\Delta$ R)

# **Model A Series**



### MECHANICAL

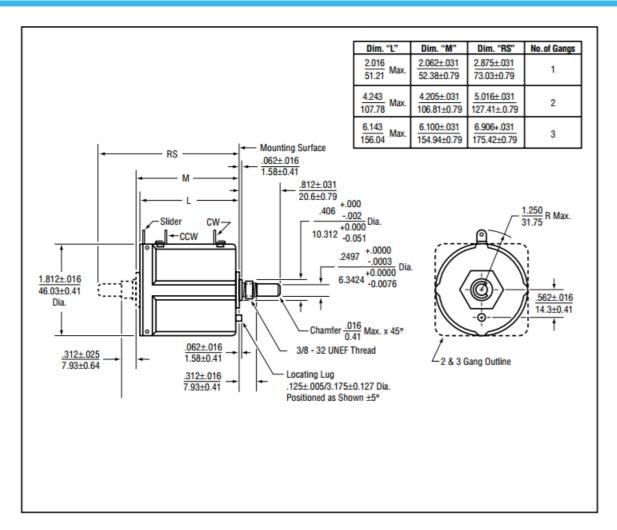
Total Mechanical Travel	3600° + 4° - 0°
Number of Gangs, Maximum	3
Weight, Nominal (Single Gang)	4.4 oz.
Static Stop Strength	550 ozin.
Backlash, Maximum	1°
Panel Nut Tightening Torque, Maximum	25 lbin.
Shaft End Play, Maximum	.005"
Shaft Runout, T.I.R., Maximum	.0005"
Pilot Diameter Runout, T.I.R., 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

Theoretical			
Total	Resolution	Tempco	
Resistance	(% Nominal)	of Wire	
10	0.082	. 900 nnm/°C *	
		+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	
2K	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 model.			

### **Model A Series**





METRIC CONVERSIONS	
1 in.	25.4mm
1 oz.	28.4 gm

1 ozin.	0,007 N-m
1 lbin.	0,113 N-m

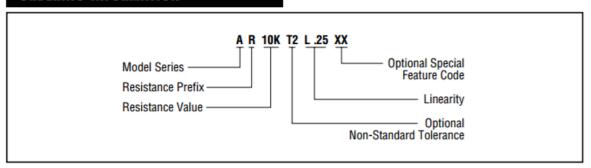
### **Model A Series**



### 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

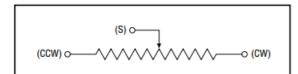
### ORDERING INFORMATION



### MATCHING TURNS COUNTING DIALS

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



# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Precision Potentiometers category:

Click to view products by TT Electronics manufacturer:

Other Similar products are found below:

578002M9648 70J1G032S202A 176FL1-284 F78SB102-M257 3548H-1AA-103B 485025M9267 MH12B-10L-10K 578005M9656

72N4N048S203W RO200SF1C103 114BF2A102-L774 200FL1-199 78FL1-397 78MKV-128 501-0004 501-0018 SE15303-352-T4

284TCBF103A26A1 RO34SF1B502 200FL1-260 4205R10KL.5 3548H-1AB-502A 157-0237 1521R10KL.3 284TBBK103A26B1 SP22G-500 DC22-10-100 RCL-100 RCL-200 380C2750K 3548H-1AA-102B 380C2500K 3590P-2-203L 3590P-1-103L 3547S-1AA-202A

534B1250JC 3543S-1-202L 3543S-1-102L 3543S-1-502L 3545S-1-103L 3549S-2AA-102/102A P3265 P3270 P3275 P3280 P3285 P3290

AR200KL.25 6637S-1-102 RV6NAYSD101AP