



7/8" (22.2 mm) Multi Turn Wirewound Potentiometer - 533: 3 Turns/534: 10 Turns/535: 5 Turns



FEATURES

- Bushing and servo mount designs available
Special resistance tolerances to 1 %
Rear shaft extensions and support bearing
Metric shaft available
Dual gang configuration and concentric shafts
High torque, center tap, slipping clutch on request
Special markings and front shaft extensions
Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



RoHS COMPLIANT

Table with 2 columns: Parameter and Value. Includes Sensor type (ROTATIONAL), Output type (Output by turrets), Market appliance (Industrial), and Dimensions (7/8" (22.2 mm)).

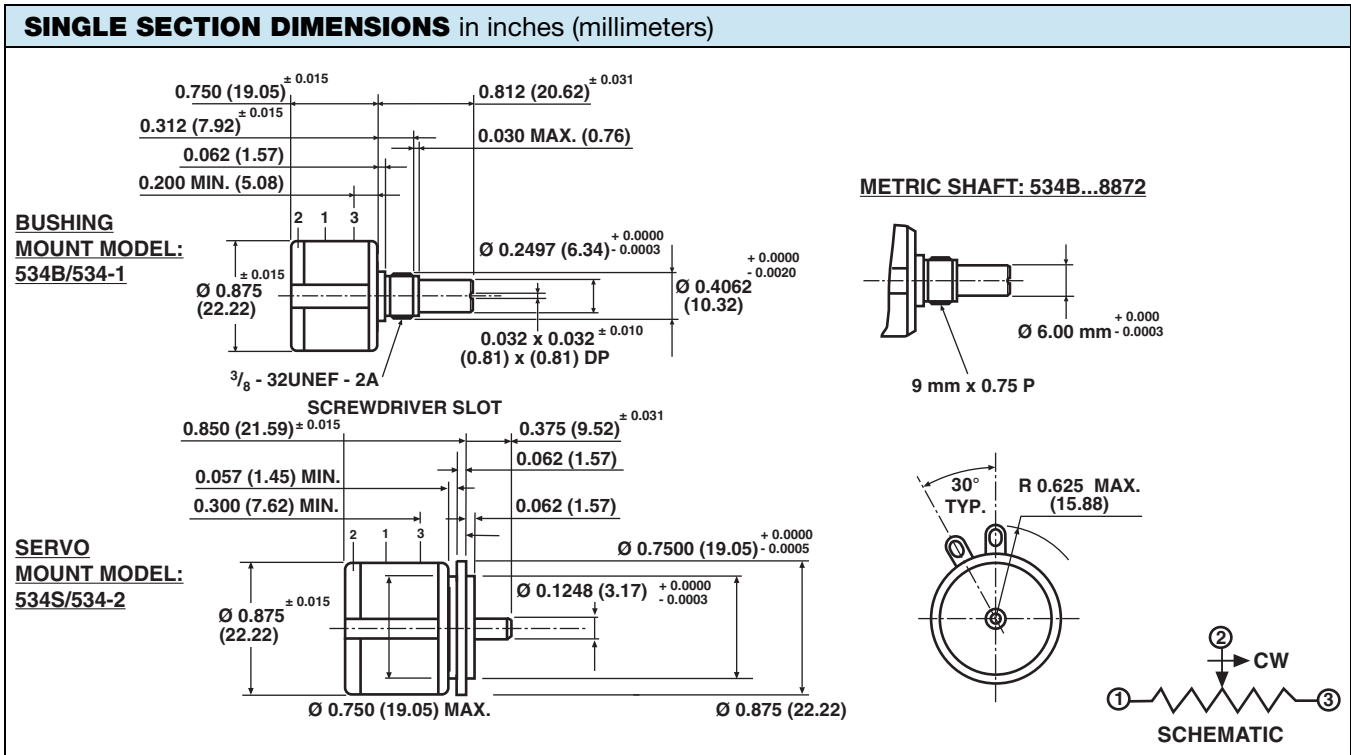
Table with 4 columns: Parameter, Model 533, Model 534, Model 535. Lists electrical specifications such as Resistance range, Capability range, Standard tolerance, Linearity, Noise, Rotation, Power rating, Insulation resistance, Dielectric strength, Absolute minimum resistance, Temperature coefficient, End voltage, Phasing, and Taps.

Table with 2 columns: Marking and Description. Unit identification includes manufacturer's name, model number, resistance value, tolerance, linearity, specification date code, and terminal identification.

Table with 2 columns: Resistance Values and Values. Lists resistance values for models 533, 534, and 535.

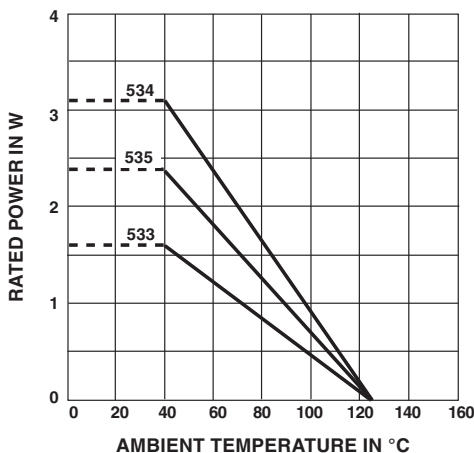
Table for Ordering Information/Description. Includes model numbers (534, B, 2, 10K, 20K, 5%, C, BO10, e4) and their corresponding parameters like Mounting, Number of Section, Ohmic Value, Tolerance, Linearity, Packaging, and Lead Finish.

Table for SAP Part Numbering Guidelines. Lists model numbers (534, B, 2, 103, 203, J, C, B) and their corresponding parameters like Style, Number of Section, Ohmic Value, Tolerance, Linearity, and Packaging.



Mounting hardware, washer and panel nut, nickel plated

MECHANICAL SPECIFICATIONS		
PARAMETER		
Bearing type	Bushing: Sleeve bearing	Servo: Ball bearing
Torque (maximums): starting	534	
Section 1	0.5 oz. - in (36 g - cm)	533/535
Section 2	0.9 oz. - in (65 g - cm)	0.7 oz. - in (50 g - cm)
		1.1 oz. - in (79 g - cm)
Torque (maximums): running	534	
Section 1	0.4 oz. - in (28.80 g - cm)	533/535
Section 2	0.7 oz. - in (50.40 g - cm)	0.6 oz. - in (43.20 g - cm)
		0.9 oz. - in (64.8 g - cm)
Weight (maximums)		
Section 1	0.75 oz. (21.26 g)	
Section 2	1.25 oz. (35.44 g)	
Stop strength	75 oz. - in (static) (5.4 kg - cm)	
Ganging	2 sections maximum	

POWER RATING CHART


ENVIRONMENTAL SPECIFICATIONS	
Vibration	15 g thru 2000 Hz
Shock	50 g
Rotational life (shaft revolution)	
533	300 000
534	1 000 000
534 (servo)	> 1 000 000
535	500 000
Load life	900 h
Temperature range	- 55 °C to + 125 °C



RESISTANCE ELEMENT DATA														
RESISTANCE VALUE (Ω)			RESOLUTION (%)			OHMS PER TURN			MAXIMUM CURRENT AT 70 °C AMBIENT (mA)			MAXIMUM VOLTAGE ACROSS COIL (V)		
533	534	535	533	534	535	533	534	535	533	534	535	533	534	535
50	-	50	0.149	-	0.120	0.0746	-	0.0603	141.0	-	173.0	7.07	-	8.66
100	100	100	0.111	0.060	0.075	0.1114	0.0603	0.0746	100.0	141.0	122.0	10.0	14.1	12.2
200	200	200	0.097	0.037	0.061	0.1954	0.0746	0.1220	70.7	100.0	86.6	14.1	20.0	17.3
500	500	500	0.069	0.031	0.049	0.3424	0.1520	0.2459	44.7	63.2	54.7	22.4	31.6	27.4
1K	1K	1K	0.063	0.025	0.041	0.6331	0.2459	0.4113	31.6	44.7	38.7	31.6	44.7	38.7
2K	2K	2K	0.041	0.021	0.031	0.8206	0.4113	0.6331	22.4	31.6	27.4	44.7	63.2	54.8
5K	5K	5K	0.044	0.016	0.034	2.2330	0.8206	1.7230	14.1	20.0	17.3	70.7	100.0	86.6
10K	10K	10K	0.034	0.017	0.030	3.4510	1.7230	3.0160	10.0	14.1	12.2	100.0	141.0	122.0
20K	20K	20K	0.031	0.015	0.020	6.1790	3.0160	3.9910	7.07	10.0	8.66	141.0	200.0	173.0
-	50K	50K	-	0.009	0.015	-	4.6690	7.4560	-	6.32	5.47	-	316.0	274.0
-	100K	-	-	0.007	-	-	7.4560	-	-	4.47	-	-	447.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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