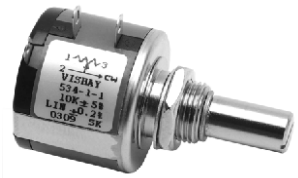
7/8" (22.2 mm) Multiturn Wirewound
533: 3 Turns/534: 10 Turns/535: 5 Turns



Note
- The color of this product may either be black (US market) or blue (other regions)

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

RoHS COMPLIANT

ELECTRICAL SPECIFICATIONS

PARAMETER	MODEL 533	MODEL 534	MODEL 535
Resistance Range - Standard Values	50 Ω to 20 kΩ	100 Ω to 100 kΩ	50 Ω to 50 kΩ
Capability Range	5 Ω to 60 kΩ	10 Ω to 200 kΩ	5 Ω to 100 kΩ
Standard Tolerance	± 5 %	± 5 %	± 5 %
Linearity (Independent)	± 0.25 %	± 0.25 %	± 0.25 %
Noise	100 Ω ENR	100 Ω ENR	100 Ω ENR
Rotation (Electrical and Mechanical)	$1080^{\circ}\ ^{+10^{\circ}}_{-0^{\circ}}$	$3600^{\circ}\ ^{+10^{\circ}}_{-0^{\circ}}$	$1800^{\circ}\ ^{+10^{\circ}}_{-0^{\circ}}$
Power Rating (at 70 °C)	1.0 W	2.0 W	1.5 W
Insulation Resistance	1000 MΩ minimum 500 V_{DC}		
Dielectric Strength	1000 V_{RMS} minimum 60 Hz		
Absolute Minimum Resistance	Not to exceed linearity x total resistance or 1 Ω, whichever is greater		
Temperature Coefficient	20 ppm/°C (standard values, wire only)		
End Voltage	0.25 % of total applied voltage, maximum		
Phasing	CCW end points - section 2 phased to section 1 within ± 2°		
Taps	Center tap only		

MARKING

Unit Identification	Manufacturer's name and model number, resistance value and tolerance, linearity specification date code and terminal identification

RESISTANCE VALUES

Ohms 533:	50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K
534:	100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K, 100K
535:	50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K

ORDERING INFORMATION/DESCRIPTION

The Models 533 (3 turns), 534 (10 turns) and 535 (5 turns) can be ordered by stating

534	**B**	**2**	**10K**	**20K**	**5 %**	**C**	**BO10**	**e4**
MODEL	MOUNTING **B**: Bushing **S**: Servo	NUMBER OF SECTIONS	OHMIC VALUE SECTION Nº 1	OHMIC VALUE SECTION Nº 2	TOLERANCE ON OHMIC VALUE	LINEARITY ± 0.25 % (STD)	PACKAGING Box of 10 pieces	LEAD FINISH

SAP PART NUMBERING GUIDELINES

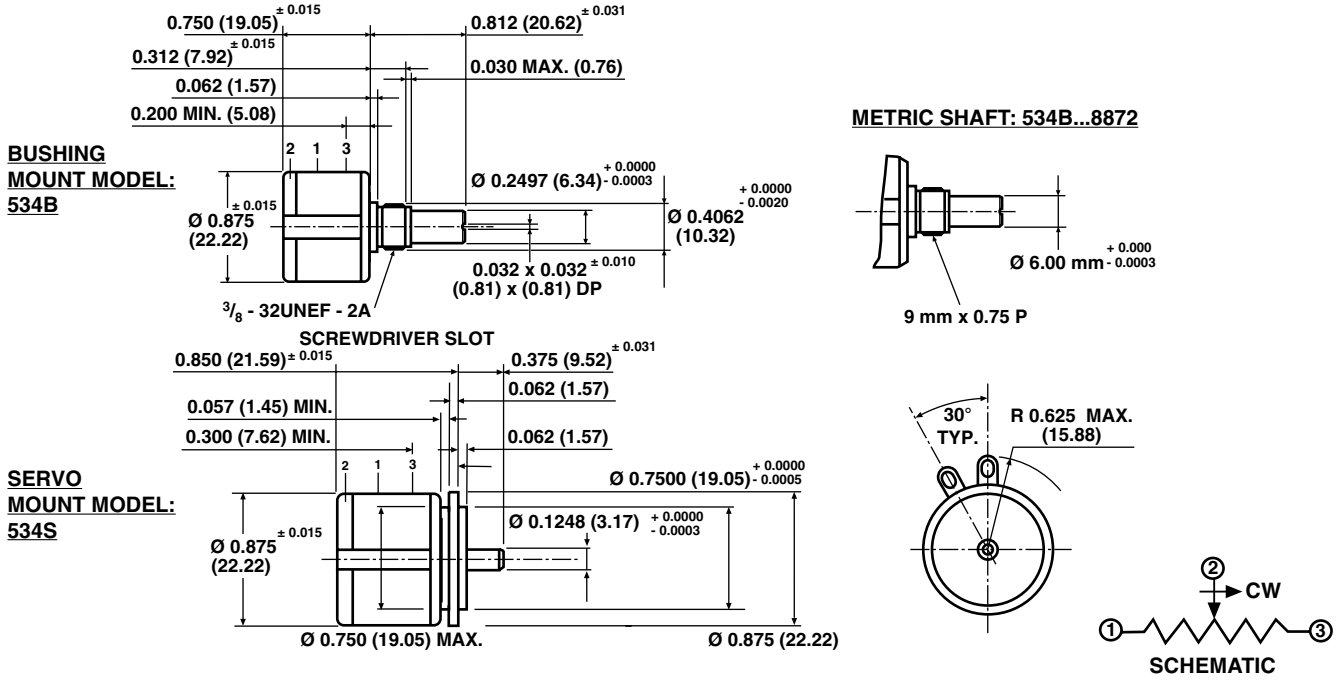
534	**B**	**2**	**103**	**203**	**J**	**C**	**B10**
MODEL	STYLE **B**: Bushing **S**: Servo	NUMBER OF SECTIONS	OHMIC VALUE SECTION Nº 1 **103** = 10K	OHMIC VALUE SECTION Nº 2 **203** = 20K	TOLERANCE ON OHMIC VALUE **J**: ± 5 % **F**: ± 1 %	LINEARITY **C**: ± 0.25 % CUSTOM: **L**: ± 0.20 % **D**: ± 0.1 %	PACKAGING Box of 10 pieces

Model 533, 534, 535

Vishay Spectrol

$^{7}/_{8}$" (22.2 mm) Multiturn Wirewound
533: 3 Turns/534: 10 Turns/535: 5 Turns

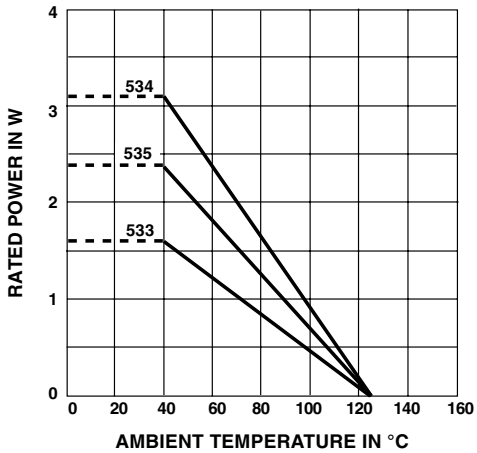
SINGLE SECTION DIMENSIONS in inches (millimeters)



Mounting hardware, washer and panel nut, nickel plated

MECHANICAL SPECIFICATIONS		
PARAMETER		
Bearing Type	Bushing: Sleeve bearing	Servo: Ball bearing
Torque (Maximums): Starting Section 1 Section 2	**534** 0.5 oz. - in (36 g - cm) 0.9 oz. - in (65 g - cm)	**533/535** 0.7 oz. - in (50 g - cm) 1.1 oz. - in (79 g - cm)
Torque (Maximums): Running Section 1 Section 2	**534** 0.4 oz. - in (28.80 g - cm) 0.7 oz. - in (50.40 g - cm)	**533/535** 0.6 oz. - in (43.20 g - cm) 0.9 oz. - in (64.8 g - cm)
Weight (Maximums) Section1 Section 2	0.75 oz. (21.26 g) 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) 533 534 534 (Servo) 535	 300 000 1 000 000 > 1 000 000 500 000
Load Life	900 h
Temperature Range	- 55 °C to + 125 °C

$^{7}/_{8}$" (22.2 mm) Multiturn Wirewound
533: 3 Turns/534: 10 Turns/535: 5 Turns

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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