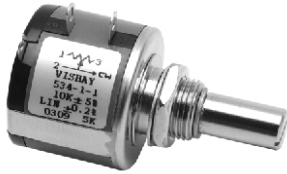


7/8" (22 mm) Multiturn Wirewound 533: 3 Turns/534: 10 Turns/535: 5 Turns



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



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 %	± 0.20 %	± 0.25 %
Noise	100 Ω ENR	100 Ω ENR	100 Ω ENR
Rotation (Electrical & Mechanical)	1080° +10° -0°	3600° +10° -0°	1800° +10° -0°
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

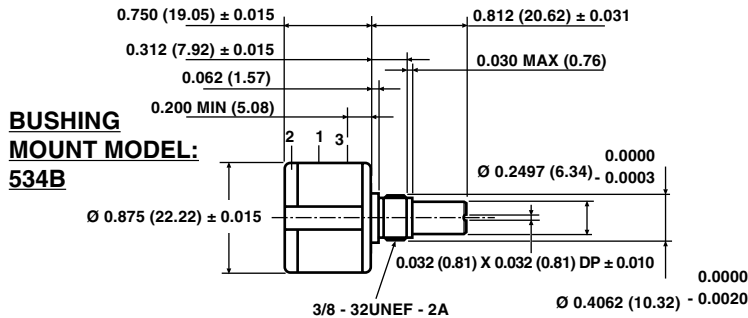
RESISTANCE VALUES	
Ohms 533:	50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K
534:	100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K, 100K
535:	50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K

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 %	L	BO10	e4
MODEL	MOUNTING	NUMBER OF SECTIONS	OHMIC VALUE SECTION N° 1	OHMIC VALUE SECTION N° 2	TOLERANCE ON OHMIC VALUE	LINEARITY ± 0.20 %	PACKAGING Box of 10 pieces	LEAD FINISH
	B: Bushing S: Servo							

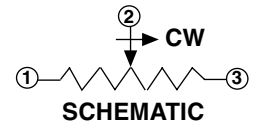
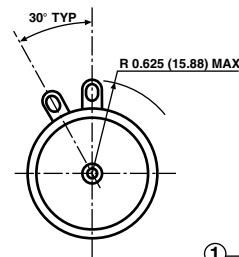
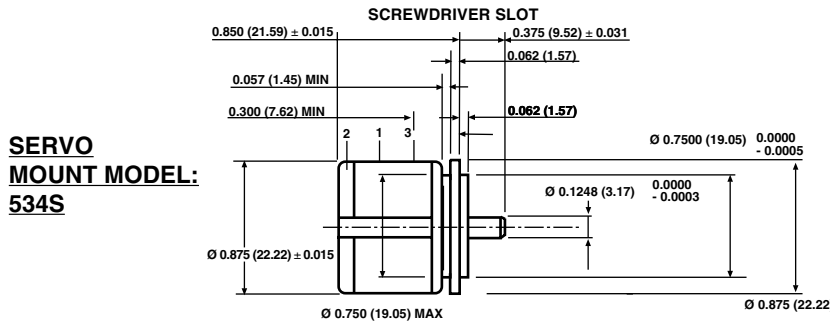
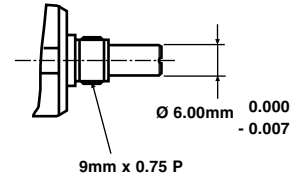
SAP PART NUMBERING GUIDELINES							
534	B	2	103	203	J	L	B10
MODEL	STYLE	NUMBER OF SECTIONS	OHMIC VALUE SECTION N° 1	OHMIC VALUE SECTION N° 2	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING
	B: Bushing S: Servo		103 = 10K	203 = 20K	J: ± 5 % F: ± 1 %	L: ± 0.20 % C: ± 0.25 % D: ± 0.10 %	Box of 10 pieces



SINGLE SECTION DIMENSIONS in millimeters



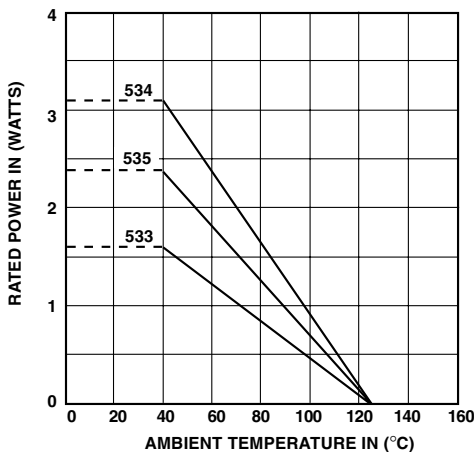
METRIC SHAFT: 534B...8872



Mounting hardware, washer and panel nut, nickel plated

MECHANICAL SPECIFICATIONS		
PARAMETER		
Bearing Type	Bushing: Sleeve bearing	Servo: Ball bearing
Torque (maximums): starting		
Section 1	534 0.5 oz - in (36 g - cm)	533/535 0.7 oz - in (50 g - cm)
Section 2	0.9 oz - in (65 g - cm)	1.1 oz - in (79 g - cm)
Torque (maximums): running		
Section 1	534 0.4 oz - in (28.80 g - cm)	533/535 0.6 oz - in (43.20 g - cm)
Section 2	0.7 oz - in (50.40 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 hours
Temperature Range	- 55 °C to + 125 °C

Model 533, 534, 535



Vishay Spectrol

7/8" (22 mm) Multiturn Wirewound
533: 3 Turns/534: 10 Turns/535: 5 Turns

RESISTANCE ELEMENT DATA														
RESISTANCE VALUE (Ω)			RESOLUTION %			OHMS PER TURN			MAX CURRENT AT 70 °C AMBIENT (mA)			MAX 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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