

7/8" (22mm) Precision Wirewound Potentiometer



FEATURES

- Special Resistance Tolerances to 1%
- Rear Shaft Extensions and Support Bearing
- Non Turn Lug
- Insulating Plastic Shaft
- Special Independent Linearity to $\pm 0.75\%$
- Dual Gang Configuration and Concentric Shafts
- High Torque and Center Tap
- Special Markings and Front Shaft Extensions
- Servo Unit available and Slipping Clutch

ELECTRICAL SPECIFICATIONS

PARAMETER	MODEL 533	MODEL 534	MODEL 535
Resistance Range	50 Ω to 20K Ω	100 Ω to 100K Ω	50 Ω to 50K Ω
Standard Values			
Capability Range	5 Ω to 60K Ω	10 Ω to 200K Ω	5 Ω to 100K Ω
Standard Tol	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$
Linearity (Independent)	$\pm 0.25\%$	$\pm 0.25\%$	$\pm 0.25\%$
Noise	100 Ω ENR	100 Ω ENR	100 Ω ENR
Rotation (Electrical & Mechanical)	0° + 10°	0° + 10°	0° + 10°
Power Rating (@ 70°C)	1.0 watts	2.0 watts	1.5 watts
Additional Sections	75% of section 1		
Insulation Resistance	1000M Ω minimum 500VDC		
Dielectric Strength	1000V _{RMS} minimum 60Hz		
Absolute Minimum Resistance	Not to exceed linearity x total resistance or 1 Ω , whichever is greater		
Tempco	20ppm/°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 $\pm 2^\circ$		
Taps	Center tap only		

MARKING

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

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

534	1	2	XXX
MODEL	MOUNTING	NUMBER OF SECTIONS	RESISTANCE EIA CODE SECTION #N
	1. Bushing 2. Servo		(consult factory)

Model 533, 534, 535



Vishay Spectrol
www.vishay.com 1" 供应商

7/8" (22mm) Precision
 Wirewound Potentiometer

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	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—