

## 10 Turns, Wirewound Potentiometer - Metric



### KEY BENEFITS

- 22.22 mm (0.875 inches) diameter potentiometer
- Special shafts up to 50.8 mm (2 in.)
- Rear shaft extensions
- Dual gang versions 36.7 mm (1.445 in.) length (bush mount)
- 1 million shaft revolutions

### APPLICATIONS

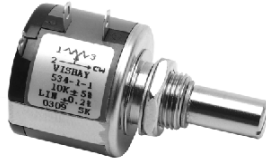
- Medical instruments
- Welding machines
- Wire cutting machines
- Almost any industrial control that requires a metric shaft

### RESOURCES

- Datasheet: 534-8872 - <http://www.vishay.com/doc?57065>
- For technical questions contact [sfer@vishay.com](mailto:sfer@vishay.com)



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**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° +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 <sub>DC</sub>		
Dielectric Strength	1000 V <sub>RMS</sub> 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	Values
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	NUMBER OF SECTIONS	OHMIC VALUE SECTION N° 1	OHMIC VALUE SECTION N° 2	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING	LEAD FINISH
	B: Bushing S: Servo		N° 1	N° 2		± 0.25 % (STD)	Box of 10 pieces	

**SAP PART NUMBERING GUIDELINES**

534	B	2	103	203	J	C	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 %	C: ± 0.25 % CUSTOM: L: ± 0.20 % D: ± 0.1 %	Box of 10 pieces

Revision 06-Apr-10

Resistors - 22.2 mm, 10 Turns