

## Features

- Permanickel contact
- Plastic 1/4" diameter shaft
- Gold plated terminals
- Internal tracking surfaces gold plated
- Precision winding with excellent linearity

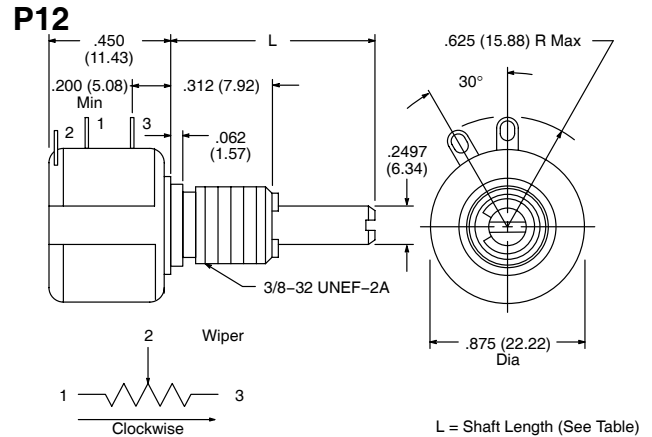


Spectrol No.	NTE Part No.	Value (Ohms)	Shaft Length	Diag No.
536-1-1-101	502-0115	100	7/8"	P12
536-1-1-201	502-0116	200	7/8"	P12
536-1-1-501	502-0117	500	7/8"	P12
536-1-1-102	502-0118	1K	7/8"	P12
536-1-1-202	502-0119	2K	7/8"	P12
536-1-1-502	502-0120	5K	7/8"	P12
536-1-1-103	502-0121	10K	7/8"	P12
536-1-1-203	502-0122	20K	7/8"	P12
536-1-1-503	502-0123	50K	7/8"	P12
536-1-1-104	502-0124	100K	7/8"	P12

Resistance Element Data				
Resistance Value (Ohms)	Resolution (%)	Ohms per Turn	Max Current @ 70°C Ambient (mA)	Max Voltage Across Coil (Volts)
100	.060	.0603	141.00	14.1
200	.037	.0746	100.00	20.0
500	.031	.1520	63.20	31.6
1K	.025	.2459	44.70	44.7
2K	.021	.4113	31.60	63.2
5K	.016	.8206	20.00	100.0
10K	.017	1.7230	14.10	141.0
20K	.015	3.0160	10.00	200.0
50K	.009	4.6690	6.32	316.0
100K	.007	7.4560	4.47	447.0

# Spectrol 536 Series

Potentiometer – 3 Watt, 7/8" round case, 1/4" dia. shaft, 10 turn, precision wirewound



## Specifications

### Electrical

**Resistance Range:** 100 Ω to 100K Ω  
**Resistance Tolerance:** ±5%  
**Linearity (independent):** ±0.25%  
**Noise:** 100 Ω ENR  
**Rotation:** 3600° +10°, -0°  
**Power Rating:** 3 Watt @ 70°C derated to 0 Watts @ 125°C  
**Insulation Resistance:** 1000 Meg Ω min, 500VDC  
**Dielectric Strength:** 1000V RMS min 60Hz  
**Absolute Minimum Resistance:** Not to exceed .10% of total resistance or 1Ω, whichever is greater  
**Temperature Coefficient of Resistance:** 20ppm/°C (wire only)  
**End Voltage:** 0.25% of total applied voltage, max

### Mechanical

**Bearing Type Bushing:** Sleeve bearing  
**Resistance Element:** See Table  
**Rotation:** 3600° +10°, -0°  
**Starting Torque (maximum):** 36 gm-cms (0.5 oz in)  
**Stop Strength (static):** 5.4 Kgm-cm (75 oz in)  
**Rotation Life:** 1,000,000 shaft revolutions

### Environmental

**Operating Temperature:** -55°C to +125°C  
**Load Life:** 900 hr.