

## Features

- Phosphor bronze, solder plated terminals
- Available in 1/8" and 1/4" shaft diameter
- 1/4" plastic shaft types
- Plastic flame retardant housing
- Available in audio taper (J types)



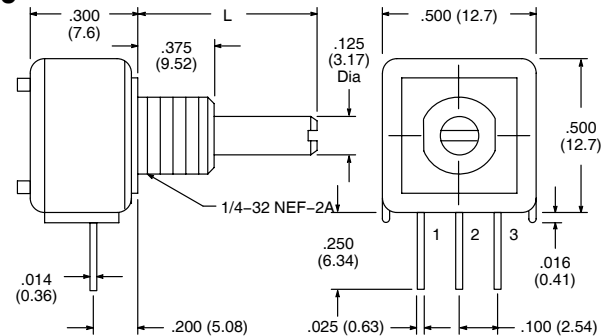
Spectrol No.	NTE Part No.	Value (Ohms)	Shaft Length	Diag No.
249-7-10-501	502-0164	500	7/8"	P10
249-8-08-501	502-0064	500	3/4"	P9
249-7-10-102	502-0165	1K	7/8"	P10
249-8-08-102	502-0065	1K	3/4"	P9
249-J-8-08-102	502-0180	1K	3/4"	P9
249-J-9-10-102	502-0185	1K	7/8"	P10
249-7-10-252	502-0166	2.5K	7/8"	P10
249-8-08-252	502-0066	2.5K	3/4"	P9
249-7-10-502	502-0167	5K	7/8"	P10
249-8-08-502	502-0067	5K	3/4"	P9
249-7-10-103	502-0168	10K	7/8"	P10
249-8-08-103	502-0068	10K	3/4"	P9
249-J-8-08-103	502-0181	10K	3/4"	P9
249-J-9-10-103	502-0186	10K	7/8"	P10
249-7-10-253	502-0169	25K	7/8"	P10
249-8-08-253	502-0069	25K	3/4"	P9
249-7-10-503	502-0170	50K	7/8"	P10
249-8-08-503	502-0070	50K	3/4"	P9
249-J-8-08-503	502-0182	50K	3/4"	P9
249-J-9-10-503	502-0187	50K	7/8"	P10
249-7-10-104	502-0171	100K	7/8"	P10
249-8-08-104	502-0071	100K	3/4"	P9
249-J-8-08-104	502-0183	100K	3/4"	P9
249-J-9-10-104	502-0188	100K	7/8"	P10
249-7-10-254	502-0172	250K	7/8"	P10
249-8-08-254	502-0072	250K	3/4"	P9
249-7-10-504	502-0173	500K	7/8"	P10
249-8-08-504	502-0073	500K	3/4"	P9

NOTE: 249-7-XX-XXX are plastic shaft types

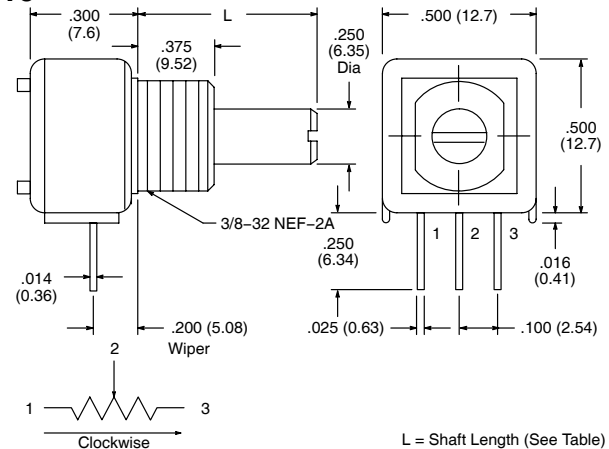
# Spectrol 249 Series

## Potentiometer – 1 Watt, 1/2" square 1/8" and 1/4" dia. shaft

P9



P10



L = Shaft Length (See Table)

## Specifications

### Electrical

**Resistance Range – Linear Taper:** 500Ω to 500kΩ  
**– CW Audio Taper:** J types

**Resistance Tolerance:** ±10%

**Power Rating:** 1 Watt @ 70°C derated to 0 Watts @ 125°C

**Temperature Coefficient of Resistance:** ±100ppm/°C

**Linearity Tolerance:** ±5% independent

**Contact Resistance Variation:** 3% of total resistance

**Insulation Resistance:** 1000 Meg Ω min, 500VDC

**Dielectric Strength:** 750V RMS min 50Hz

**End Resistance:** 2Ω max each end

**Effective Electrical Angle:** 265° ±5°

**Rotation Life:** 25,000 cycles

### Mechanical

**Resistance Element:** Cermet

**Mechanical Rotation:** 295° ±5°

**Starting and Running Torque:** 1.5 to 18.75mNm

**End Stop Torque:** 0.35Nm (50oz in)

### Environmental

**Operating Temperature:** –55°C to +125°C

**Load Life:** 1000 hr.