

7/8" (22mm) Conductive Plastic Potentiometer



FEATURES

- 7/8" Diameter Single Turn
- Compact Size, Advanced Design Technology
- Offers a Cost Effective Solution to your Potentiometer Requirements

ELECTRICAL SPECIFICATIONS

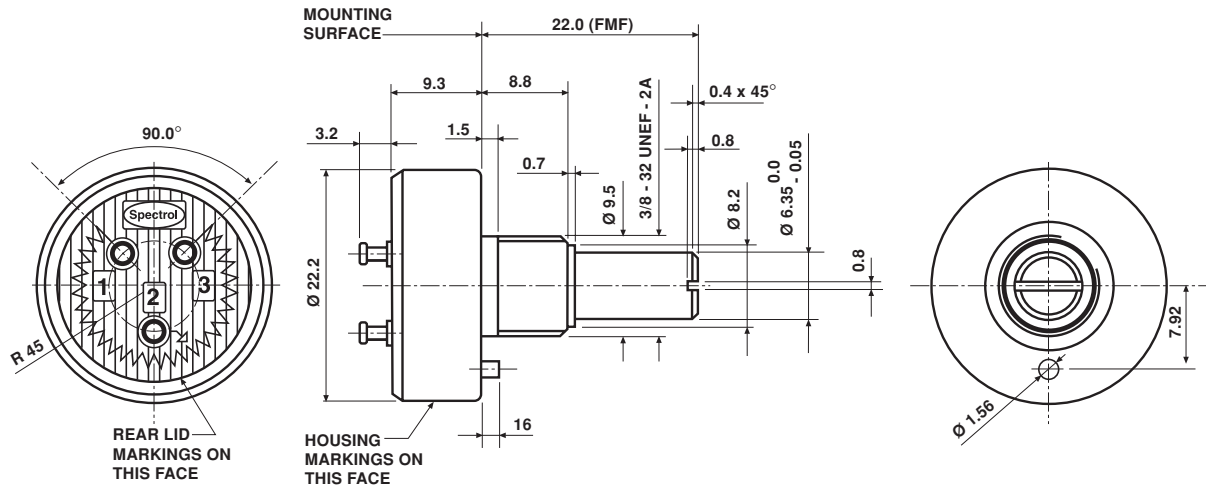
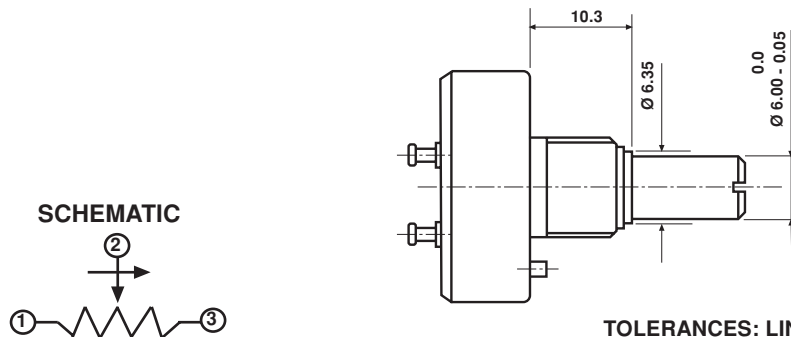
PARAMETER		
Resistance	Standard range, 1K Ω to 50K Ω	
Tolerance	STANDARD $\pm 20\%$	SPECIAL TO $\pm 10\%$
Linearity (Independent)	STANDARD $\pm 2.0\%$	SPECIAL TO $\pm 1.0\%$
Output Smoothness	0.1% maximum	
TCR	$\pm 600\text{ppm}/^{\circ}\text{C}$ maximum	
Power Rating	1.0 watt at 70 $^{\circ}\text{C}$ Derate to 0 watt at 125 $^{\circ}\text{C}$	
Electrical Travel	340 $^{\circ} \pm 3^{\circ}$	
End Voltage	0.5% maximum	
Dielectric Withstanding Voltage	1,000V _{RMS} , 60Hz	
Insulation Resistance	1000M Ω , 500VDC	

MECHANICAL SPECIFICATIONS

PARAMETER	
Rotation	360 $^{\circ}$ continuous (optional mechanical stops 340 $^{\circ} \pm 3^{\circ}$)
Bearing Type Bushing	Sleeve Bearing
Operating Torque Maximum	Starting and running 3.68mNm (0.5 oz - in)
Shaft Tolerance Maximum	
Runout	0.13mm (0.05 in)
End Play	0.25mm (0.010 in)
Radial Play	0.13mm (0.005 in)
Weight	17.5gms (0.62 oz)

ORDERING INFORMATION

357	0	0	0 P 22	XXX
MODEL	FEATURES	RT & INDEPENDENT LINEARITY	SHAFT TYPE	STANDARD VALUES Ω
	0 Non turn pin & continuous rotation	0 = 20% Rt Tol., 2% 1 = 20% Rt Tol., 1%	Shaft diameter - 0 = 6.0 mm or 1 = 6.35 (1/4")	RES CODE VALUE
	1 No non turn pin & continuous rotation	2 = 10% Rt Tol., 2% 3 = 10% Rt Tol., 1%	Shaft type - P = plain S = slotted	102 1K
	2 Non turn pin, with stops on rotation		FMF (from Mounting face)	202 2K
	3 No non turn pin with stops on rotation		Range from 12mm to 75mm in 1mm increments	502 5K
				103 10K
				203 20K
				503 50K
Example: 357 - 0 - 0 - 0P22 - XXX				

**DIMENSIONS** in millimeters**Ø 6.35mm SHAFT VERSION****Ø 6.0mm SHAFT VARIATION****TOLERANCES: LINEAR ± 0.50
ANGULAR $\pm 2^\circ$**

ENVIRONMENTAL SPECIFICATIONS	
Vibration	15g, 10 to 2,000Hz
Shock	50g
Load Life	1000 hours
Temperature Range	- 55°C to + 125 °C
Rotational Life (Mechanical)	10,000,000 Shaft Revolutions
Rotational Life (Electrical)	2,000,000 Shaft Revolutions
Materials:	
Housing:	Plastic, glass filled (black)
Bushing:	Brass, nickel plated
Rear Lid:	Alumina
Shaft:	Stainless steel
Terminals:	Turret type, solder plated
Bushing Mount Hardware	
Lockwasher Internal Tooth:	Steel, nickel plated
Panel Nut:	Brass, nickel plated

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

RESISTANCE VALUES	
Ohms	1K, 2K, 5K, 10K, 20K, 50K