



## 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 to 50K	
Tolerance	<b>STANDARD</b> ± 20%	<b>SPECIAL TO</b> ± 10%
Linearity (Independent)	<b>STANDARD</b> ± 2.0%	<b>SPECIAL TO</b> ± 1.0%
Output Smoothness	0.1% maximum	
TCR	± 600ppm/°C maximum	
Power Rating	1.0 watt at 70°C Derate to 0 watt at 125°C	
Electrical Travel	340° ± 3°	
End Voltage	0.5% maximum	
Dielectric Withstanding Voltage	1,000V <sub>RMS</sub> , 50Hz	
Insulation Resistance	1000M , 500VDC	

MECHANICAL SPECIFICATIONS	
PARAMETER	
Rotation	360° continuous (optional mechanical stops 340° ± 3°)
Bearing Type Bushing	Sleeve Bearing
Operating Torque Maximum	Starting and running 3.68mNm (0.5 oz - in)
Shaft Tolerance Maximum	
Runout	0.13mm
End Play	0.25mm
Radial Play	0.13mm
Weight	17.5gms (0.62 oz)

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

Example: 357 - 0 - 0 - 0P22 - XXX

# Model 357

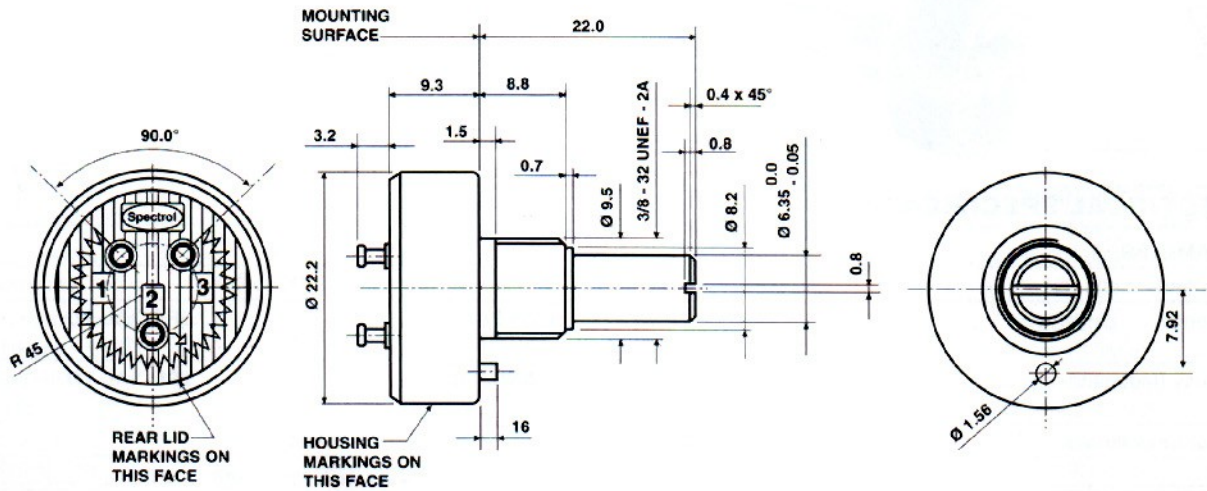
Vishay Spectrol

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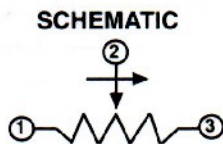
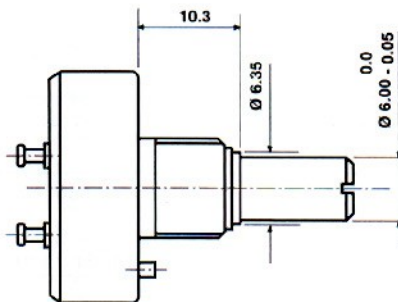


## DIMENSIONS in millimeters

### Ø 6.35mm SHAFT VERSION



### Ø 6.0mm SHAFT VARIATION



TOLERANCES: LINEAR  $\pm 0.50$   
ANGULAR  $\pm 2^\circ$

ENVIRONMENTAL SPECIFICATIONS	
Moisture Resistant	Yes
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)	5,000,000 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