

7/8" (22 mm) Conductive Plastic Potentiometer



FEATURES

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

ELECTRICAL SPECIFICATIONS

PARAMETER		
Resistance	Standard range, 1 k Ω to 50 k Ω	
Tolerance	STANDARD $\pm 15\%$	SPECIAL TO $\pm 10\%$
Linearity (Independent)	STANDARD $\pm 1.0\%$	SPECIAL TO $\pm 0.5\%$
Output Smoothness	0.1 % maximum	
TCR	± 600 ppm/ $^{\circ}\text{C}$ maximum	
Power Rating	1.0 watt at 70 $^{\circ}\text{C}$ derated to 0 watt at 125 $^{\circ}\text{C}$	
Electrical Travel	340 $^{\circ} \pm 3^{\circ}$	
End Voltage	0.5 % maximum	
Dielectric Withstanding Voltage	500 V _{RMS} , 50 Hz	
Insulation Resistance	1000 M Ω , 500 V _{DC}	

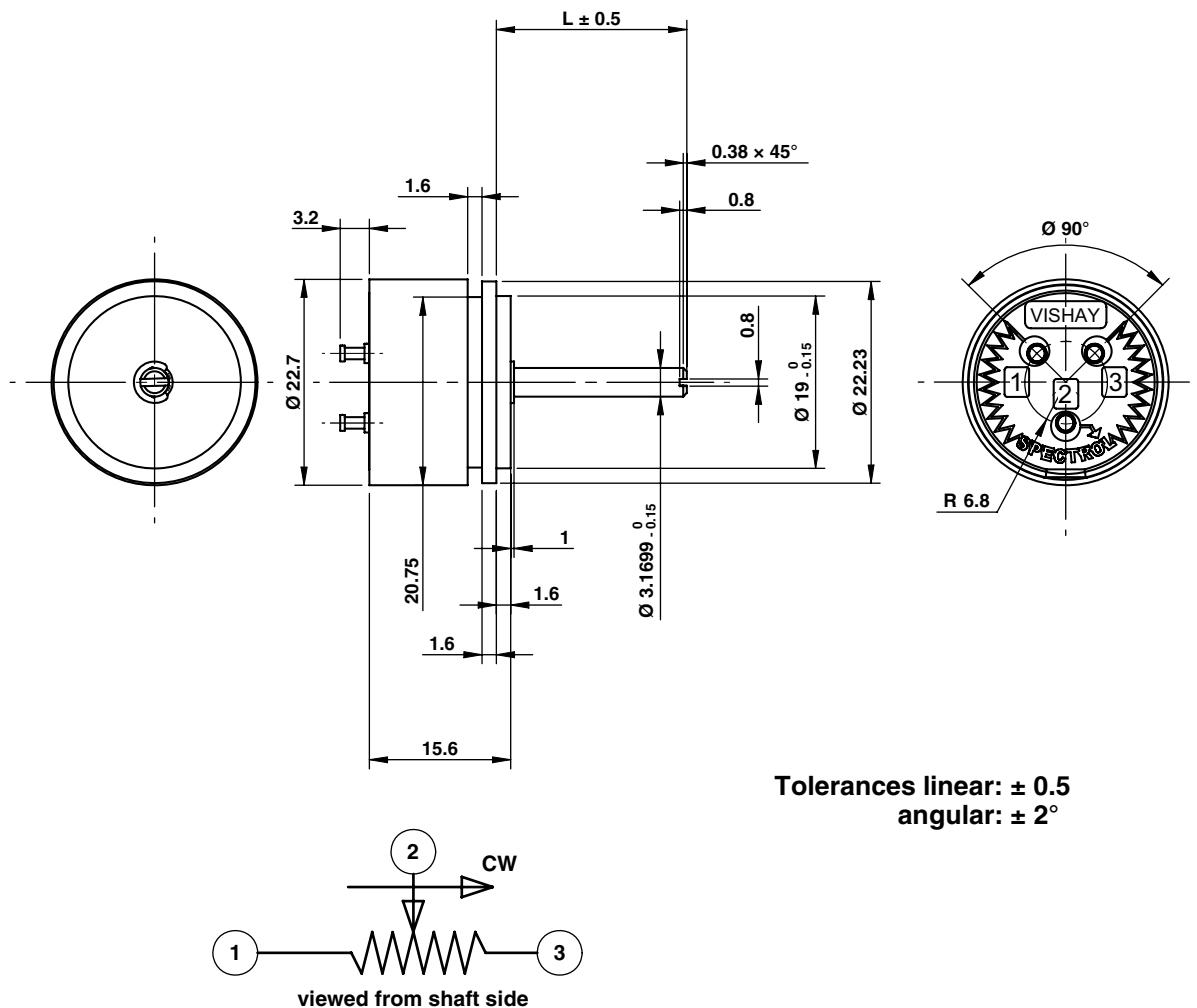
MECHANICAL SPECIFICATIONS

PARAMETER	
Rotation	360 $^{\circ}$ continuous (optional mechanical stops 340 $^{\circ} \pm 3^{\circ}$)
Bearing Type Bushing	Ball Bearing
Operating Torque Maximum	Starting and running 1.84 mNm (0.25 oz. in)
Shaft Tolerance Maximum	
Runout	0.13 mm (0.005 in)
End Play	0.25 mm (0.010 in)
Radial Play	0.13 mm (0.005 in)

ORDERING INFORMATION

358	0	0	0 P 22	XXX
MODEL	FEATURES	RT & INDEPENDENT LINEARITY	SHAFT TYPE	STANDARD VALUES
	0 = continuous rotation	0 = Rt $\pm 15\%$ lin $\pm 1\%$	Shaft diameter - 0 = 6.0 mm or 1 = 6.35 (1/4") or 2 = 3.17 (1/8")	RES CODE VALUE
	1 = end stop at 340 $^{\circ}$	1 = Rt $\pm 10\%$ lin $\pm 1\%$	Shaft type - P = plain S = slotted FMF (from Mounting face)	102 1K
		2 = Rt $\pm 15\%$ lin $\pm 0.5\%$	Range from 5 mm to 75 mm in 1 mm increments	202 2K
		3 = Rt $\pm 10\%$ lin $\pm 0.5\%$		502 5K
				103 10K
				203 20K
				503 50K

Example: 358 - 0 - 0 - 0P22 - XXX

**DIMENSIONS** in millimeters**Ø 3.17 shaft version**

Tolerances linear: ± 0.5
angular: $\pm 2^\circ$

ENVIRONMENTAL SPECIFICATIONS	
Vibration	15 g, 10 to 2000 Hz
Shock	50 g
Load Life	1000 hours
Storage Temperature Range	- 55 °C to + 125 °C
Rotational Life	5 000 000 Shaft Revolutions
Materials:	
Housing:	Plastic, glass filled (blue)
Bushing:	Brass, nickel plated
Rear Lid:	Alumina
Shaft:	Stainless steel
Terminals:	Turret type, solder plated

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

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