

357

Conductive Plastic Potentiometer



The Model 357 is a 7/8" diameter single turn conductive plastic potentiometer. With its compact size; advanced design technology; and versatility in a variety of applications the 357 offers a cost effective solution to your potentiometer requirements.

ELECTRICAL

Resistance:

Standard range, $1K\Omega$ to $50K\Omega$ Ohms

Tolerance:

Standard, ±20% Special to, ±10%

Linearity (independent):

Standard, ±2.0% Special to, ±0.25%

Output Smoothness:

0.1% max

TCR.

±600 PPM/°C max

Power Rating:

1.0W at 70°C Derate to 0 W at 125°C

Electrical Travel:

340° ±3°

End Voltage:

0.5% max

Dielectric Withstanding Voltage:

1,000V RMS, 50Hz

Insulation Resistance:

1000M Ω , 500VDC

MECHANICAL

Rotation:

360° continuous (optional mechanical stops 340° ±3°)

Bearing Type Bushing:

Sleeve Bearing

Operating Torque Max:

Starting and running 3.68mNm (0.5oz in)

Shaft Tolerance mm max:

Runout 0.13 **End Play** 0.25 Radial Play 0.13

Weight:

17.5gms (0.62oz)

RESISTANCE VALUES

Ohms- 1K, 2K, 5K, 10K, 20K, 50K

MARKING

Unit Identification:

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

ENVIRONMENTAL

Moisture Resistant:

Vibration: 15g, 10 to to 2,000Hz Shock:

50g

Load Life: 1000 hours -55°C to +125°C Temperature Range:

Rotational Life (Mechanical): 10,000,000 shaft revolutions Rotational Life (Electrical): 5,000,000 shaft revolutions

Materials

Plastic, glass filled (black) Housing:

Bushing: Brass, nickel plated

Rear Lid: Alumina Shaft: Stainless steel

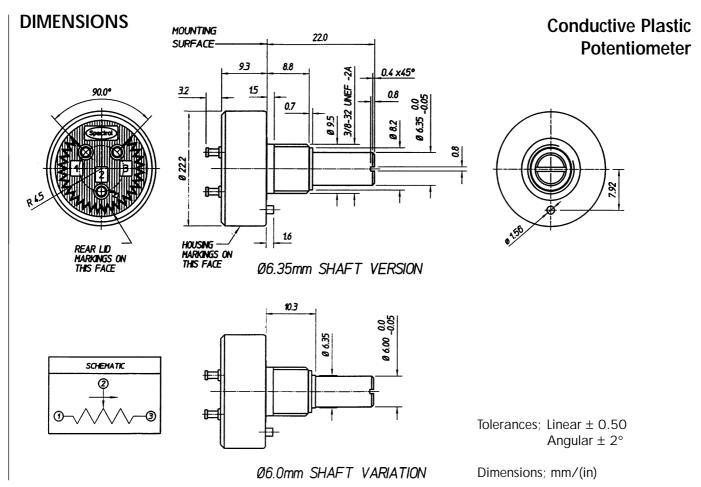
Terminals: Turret type, solder plated

Bushinhg Mount Hardware

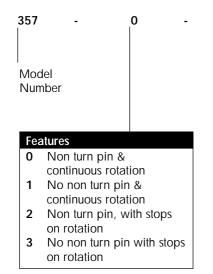
Steel, nickel plated Lockwasher, Internal Tooth: Panel Nut: Brass, nickel plated



357



ORDERING INFORMATION



0 = 20% Rt Tol., 2% Independent Linearity. 1 = 20% Rt Tol., 1%

0

Independent Linearity. 2 = 10% Rt Tol., 2% Independent Linearity.

3 = 10% Rt Tol., 1% Independent Linearity.

0 P 2	-	XXX
	— FMF (from mounting face) Range from 12mm to 75mm in 1mm increments	
	Shaft type - P=plain S=slotted	
	Shaft diameter - 0=6.0mm or 1=6.35 (1/4")	

Standard values (Unms)			
Res. code	Value		
102	1k		
202	2k		
502	5k		
103	10k		
203	20k		
503	50k		
	Res. code 102 202 502 103 203		





