### Model 357

ROHS COMPLIANT

www.vishay.com

QUICK REFERENCE DATA

Sensor type

Output type

Dimensions

Market appliance

Vishay Spectrol

### <sup>7</sup>/<sub>8</sub>" (22.2 mm) Conductive Plastic Potentiometer, Bushing Mount Type



ROTATIONAL, conductive plastic

Output by turrets

Industrial <sup>7</sup>/<sub>8</sub>" (22.2 mm)

## 

- <sup>7</sup>/<sub>8</sub>" diameter single turn
- Compact size, advanced design technology
- Offer a cost effective solution to your potentiometer requirements
- Suitable model for all industrial applications
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Standard range, 1   ARD   %   0.1 % max   ± 600 ppm/°C i   1.0 W at 70 °C derated	SPECIAL TO ± 10 %   SPECIAL ± 1.0 %   kimum		
ARD % ARD % 0.1 % max ± 600 ppm/°C i	SPECIAL TO ± 10 %   SPECIAL ± 1.0 %   kimum		
% ARD % 0.1 % max ± 600 ppm/°C i	± 10 % SPECIAL ± 1.0 % kimum		
% 0.1 % max ± 600 ppm/°C i	± 1.0 %		
± 600 ppm/°C			
	maximum		
1.0 W at 70 °C derated			
	1.0 W at 70 °C derated to 0 W at 125 °C		
340° ± 3°			
0.5 % maximum			
1000 V <sub>BMS</sub> , 60 Hz			
1000 MΩ, 500 V <sub>DC</sub>			
0.5 % maximum 1000 V <sub>RMS</sub> , 60 Hz			

360° continuous (optional mechanical stops $340^{\circ} \pm 3^{\circ}$ )	
3/8 - 32 UNEF - 2A	
Starting and running 3.68 mNm (0.5 oz in)	
0.13 mm (0.005")	
0.25 mm (0.010")	
0.13 mm (0.005")	
17.5 g (0.62 oz.)	
	3/8 - 32 UNEF - 2A Starting and running 3.68 mNm (0.5 oz in) 0.13 mm (0.005") 0.25 mm (0.010") 0.13 mm (0.005")

ORDERING INFORMATION/DESCRIPTION									
357	В		0	10K	20 %	Α	BO50	0 P 22	e4
MODEI	L STYLE		FEATURES	OHMIC VALUE	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING	SHAFT TYPE	LEAD FINISH
	Bushing	0	Non turn pin and continuous rotation				Box of 50 pieces	Shaft diameter <b>0</b> = 6.0 mm or <b>1</b> = 6.35 mm (1/4")	
		1	No non turn pin and continuous rotation	From 1K to 50 K	± 10 % or	X: ± 2 % A: ± 1 %	mounting face) Range from	$\mathbf{P} = Plain$ $\mathbf{S} = Slotted FMF (from)$	
		2	Non turn pin, with stops on rotation	10 30 1	± 20 %	A. ± 1 70		12 mm to 75 mm in	
		3	No non turn pin with stops on rotation						

Revision: 17-Apr-13

1 For technical questions, contact: <u>sferprecisionpot@vishay.com</u> Document Number: 57059

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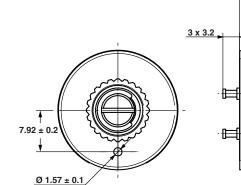
# **Model 357**

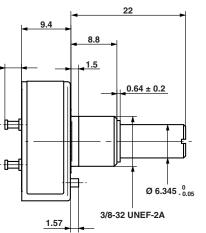
**Vishay Spectrol** 

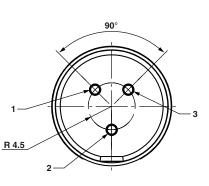
SAP PART NUMBERING GUIDELINES						
357B	2	203	М	Х	B25	1S22
MODEL	FEATURES	OHMIC VALUE	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING	SHAFT TYPE
		203 = 20K	M: ± 20 %/K: ± 10 %	X: ± 2 %	Box of 50 pieces	

### **DIMENSIONS** in millimeters

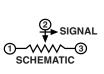
### Ø 6.35 mm SHAFT VERSION



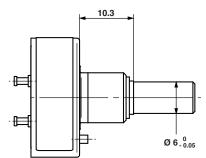




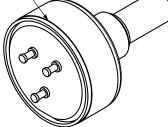
#### Ø 6.0 mm SHAFT VARIATION: METRIC



**ENVIRONMENTAL SPECIFICATIONS** 



IDENTIFICATION LABEL



TOLERANCES: LINEAR ± 0.50 ANGULAR ± 2°

MARKING					
Unit Indentification	Manufacturer's name and model number, resistance value and tolerance, linearity specification date code and terminal identification. Example of a marking for a standard part: 357-0-0-1S22-103				

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

Vibration	15 g, 10 Hz to 2000 Hz
Shock	50 <i>g</i>
Load Life	1000 h
Storage temperature range	- 55 °C to + 125 °C
Life	5 000 000 shaft revolutions
Materials	
Housing	Thermoplastic housing
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

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