### Model 357

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>

ELECTRICAL SPECIFICATIONS						
PARAMETER						
Resistance	Standard range, 1 k $\Omega$ to 50 k $\Omega$					
Tolerance	STANDARD ± 20 %	<b>SPECIAL TO</b> ± 10 %				
Linearity (independent)	<b>STANDARD</b> ± 2.0 %	<b>SPECIAL</b> ± 1.0 %				
Output smoothness	0.1 % maximum					
TCR	± 600 ppm/°C maximum					
Power rating	1.0 W at 70 °C derated to 0 W at 125 °C					
Electrical travel	340° ± 3°					
End voltage	0.5 % maximum					
Dielectric withstanding voltage	1000 V <sub>RMS</sub> , 60 Hz					
Insulation resistance	1000 MΩ, 500 V <sub>DC</sub>					
MECHANICAL SPECIFICATIONS	;					
PARAMETER						
Rotation	360° continuous (optional	mechanical stops $340^\circ \pm 3^\circ$ )				

Rotation	360° continuous (optional mechanical stops 340° ± 3°)				
Mounting	3/8 - 32 UNEF - 2A				
Operating torque maximum	Starting and running 3.68 mNm (0.5 oz in)				
Shaft tolerance maximum					
Runout	0.13 mm (0.005")				
End play	0.25 mm (0.010")				
Radial play	0.13 mm (0.005")				
Weight	17.5 g (0.62 oz.)				

ORDERING INFORMATION/DESCRIPTION										
357	В		0	10K	20 %	Α	BO50	0 P 22	e4	
MODEL	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 %		Shaft type P = Plain S = Slotted FMF (from mounting face) Range from 12 mm to 75 mm in 1 mm increments		
		2	Non turn pin, with stops on rotation	10 50 K	± 20 %	A. ± 1 %				
		3	No non turn pin with stops on rotation							

Revision: 27-Mar-15

For technical questions, contact: sferprecisionpot@vishay.com

Document Number: 57059

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### Model 357

**Vishay Spectrol** 

	NUMBERIN						
357B	2	203		<b>/</b>	X	B25	1S22
MODEL	FEATURES	OHMIC VALUE			LINEARITY		SHAFT TYPE
	<u> </u>	203 = 20K	M: ± 20 %	/K: ± 10 %	X: ± 2 %	Box of 50 pieces	
IMENSION	<b>S</b> in millimete	rs					
			<u>Ø 6.35 mm SH</u>	AFT VERSION			
			9.4	22			
			<mark>⊲ 8.8</mark>				
		<u>3 x 3.2</u>	<b>→</b> <u>1.5</u>			90°	
				0.64 ± 0.2			$\searrow$
							$\times$
(							
<u>↑</u>		3 ]			1-		3
7.92 ± 0.2			╎││┠┸──				
<u>+</u> `				Ø 6.345 - 0.0	<u>R 4.5</u>		//
				Ø 6.345 <sub>- 0.0</sub>	)5	2	
Ø 1.57 ±	. 0.1			/8-32 UNEF-2A			
			1.57				
		-					
		Ø	6.0 mm SHAFT VA	RIATION: METRIC			
					IDENTIF		$\frown$
			10.3	<b>→</b>		$ \land \checkmark \checkmark $	
							Y
	0			_	M.	on all t	
		·Ħ					
0	<u>~~~~</u> 3			-			
SC	CHEMATIC	- <b>1</b>					
				Ø 6 <sub>- 0.05</sub>	-	OLERANCES: LINEAF	0 + 0 50
					1	ANGUL	
ENVIRONM	IENTAL SPE	CIFICATIONS		MARKIN	G		
Vibration		15 g, 10 Hz to				anufacturer's name and	d model number
Shock		50 g	2000 112			sistance value and tole	
Load Life		1000 1	1	Unit	sp	ecification date code a	
Storage temper	ature range	-55 °C to +		Indentificat		entification. ample of a marking for	a standard part
Life	- 5-	5 000 000 shaft				57-0-0-1S22-103	a standard part
Materials				L	I		
Housing		Thermoplastic	housing				
Bushing		Brass, nicke	plated		NCE VAL		
Rear lid		Alumin	a	Ohms		1K, 2K, 5K, 10K, 2	20K, 50K
Shaft		Stainless					
Terminals		Turret type, sol	der plated				
Bushing mount							
Lockwasher inte	ernal tooth	Steel, nickel	plated				
Panel nut		Brass nickel	-				

#### Note

 Nothing stated herein shall be construed as a guarantee of quality or durability.

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