

Vishay Spectrol

⁷/₈" (22.2 mm) Conductive Plastic Potentiometer, Bushing Mount Type



FEATURES

• 7/8" diameter single turn



- · Compact size, advanced design technology • Offer a cost effective solution to your potentiometer requirements
- · Suitable model for all industrial applications
- Compliant to RoHS Directive 2002/95/EC

ELECTRICAL SPECIFICATION	S		
PARAMETER			
Resistance	Standard range, 1 k Ω to 50 k Ω		
Tolerance	STANDARD ± 20 %	SPECIAL TO ± 10 %	
Linearity (Independent)	STANDARD ± 2.0 %	SPECIAL ± 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 _{BMS} , 60 Hz		
Insulation Resistance	1000 Ms	Ω, 500 V _{DC}	
MECHANICAL SPECIFICATION	IS		
PARAMETER			
Rotation	360° continuous (optional	mechanical stops 340° ± 3°)	
Mounting	3/8 - 32	UNEF - 2A	

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.)	
	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")

ORDE	RING II	NFORMATI	ON/DESCRIPT	ION				
357	В	0	10K	20 %	Α	BO50	0 P 22	e4
MODEL	STYLE	FEATU	RES OHMIC VALUE		LINEARITY	PACKAGING	SHAFT TYPE	LEAD
	Bushing	 Non turn pin continuous No non turr 	rotation			Box of 50 pieces	Shaft diameter 0 = 6.0 mm or 1 = 6.35 mm (1/4") Shaft type $\mathbf{P} = \text{Plain}$ $\mathbf{C} = 0.45 \text{ mm S}$	Finish
		 continuous Non turn pir stops on rot 	From 1k to 50 K n, with	or	X: ± 2 % A: ± 1 %		S = Slotted FMF (from Mounting face) Range from 12 mm to 75 mm in 1 mm increments	
		No non turr 3 with stops or rotation					T min increments	
SAP PART NUMBERING GUIDELINES								
357E	3	2	203	Μ	Х	B2	5 1S2	2
MOD	ΞL	FEATURES	OHMIC VALUE	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKA	GING SHAFT	TYPE

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For technical questions, contact: sfer@vishay.com

M: ± 20 %/K: ± 10 %

X: ± 2 %

Box of 50 pieces

203 = 20K

7.92 ± 0.2

Ø 1.57 ± 0.1

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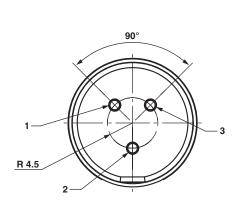
Ø 6.35 mm SHAFT VERSION



DIMENSIONS in millimeters

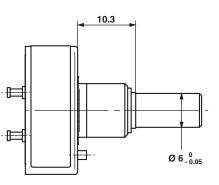
22 9.4 8.8 3 x 3.2 1.5 0.64 ± 0.2 Æ Ø 6.345 . 0.05 3/8-32 UNEF-2A

1.57



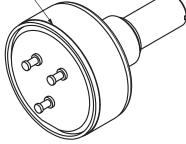
Ø 6.0 mm SHAFT VARIATION: METRIC







IDENTIFICATION LABEL



TOLERANCES: LINEAR ± 0.50 ANGULAR ± 2°

ENVIRONMENTAL SP	PECIFICATIONS
Vibration	15 g, 10 Hz to 2000 Hz
Shock	50 g
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

MARKING	
Unit Indentification	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	



Vishay

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