Model 357

www.vishay.com

QUICK REFERENCE DATA

Sensor type

Output type

Dimensions

Market appliance

Vishay Spectrol

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



ROTATIONAL, conductive plastic

Output by turrets

Industrial ⁷/₈" (22.2 mm)

•



- 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
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ELECTRICAL SPECIFICATIONS						
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 _{RMS} , 60 Hz					
Insulation resistance	1000 MΩ, 500 V _{DC}					
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 0 = 6.0 mm or 1 = 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

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishay.com/doc?91000

1



Model 357

Vishay Spectrol

	NUMBERIN						
357B	2	203		/	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	S 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>	→ <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 _{- 0.0})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	→		$ \land \checkmark \checkmark $	
							Y
	0			_	M.	on all t	
		·Ħ					
0	<u>~~~~</u> 3			-			
SC	CHEMATIC	- 1					
				Ø 6 _{- 0.05}	-	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.

/ISHAY

www.vishay.com

2



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Potentiometers category:

Click to view products by Vishay manufacturer:

Other Similar products are found below :

590SX1N32F103SS 006-0-1 591SXJ48S252SC 591SXP56S252SC 591SXP56S503SC D31409 70B1G048K502X-A 70B1M032S502W 70B1N056S202W 70B8N056F502W 70J8N048S104U 70L1N040P103W 70L1N048P103X 70L1N048S103W 81R1A-R22-A20L 85A2A-B28-B27/R51 GS1G044P103UA GS1T032S103UA A47-200K A4720K RA20LASD251A 132-0-0-502 132-2-0-202 132-0-0-102 132-0-0-103 132B00301 RK14K1220-F25-C0-A103 RK14K1220F25C0C104 RK14K1220-F25-C1-B103 14910AABHSX10102KA 14910F0GJSX10105KA 14910FAGJSX10102KA 14910FBGLFY00103KA 14910AABHSX10502KA 14910FAGJSX10104KA ASM6674E 152-01031 P140KH1-F15AR50K P170SPD-FC15BR10K P231-EC20BR5K P270-109A J97589 P9A2R000FISX1103MA 248BBHS0XB25104MA 248BBHS0XB25503MA RV170F-10-15R1-B500K-0021 RV24AF-10-15R1-B500-3 A43-750 A47-15K A4750K