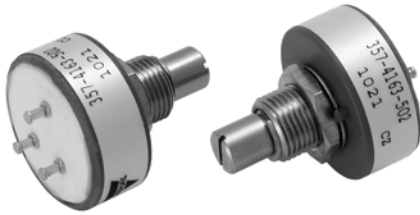


## 7/8" (22.2 mm) Conductive Plastic Potentiometer, Bushing Mount Type



### 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
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

### QUICK REFERENCE DATA

Sensor type	ROTATIONAL, conductive plastic
Output type	Output by turrets
Market appliance	Industrial
Dimensions	7/8" (22.2 mm)

### ELECTRICAL SPECIFICATIONS

PARAMETER		
Resistance	Standard range, 1 kΩ to 50 kΩ	
Tolerance	<b>STANDARD</b> ± 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° ± 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.)

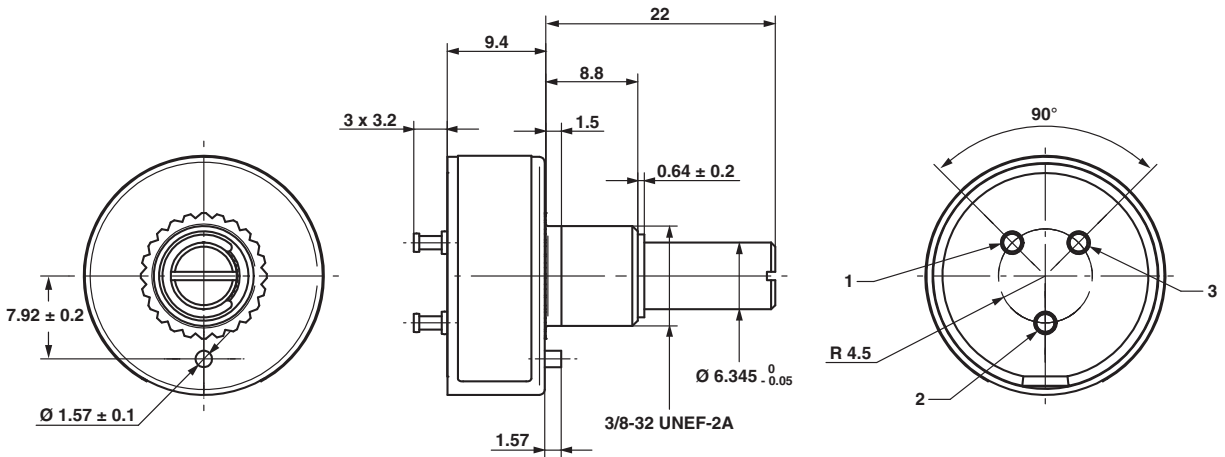
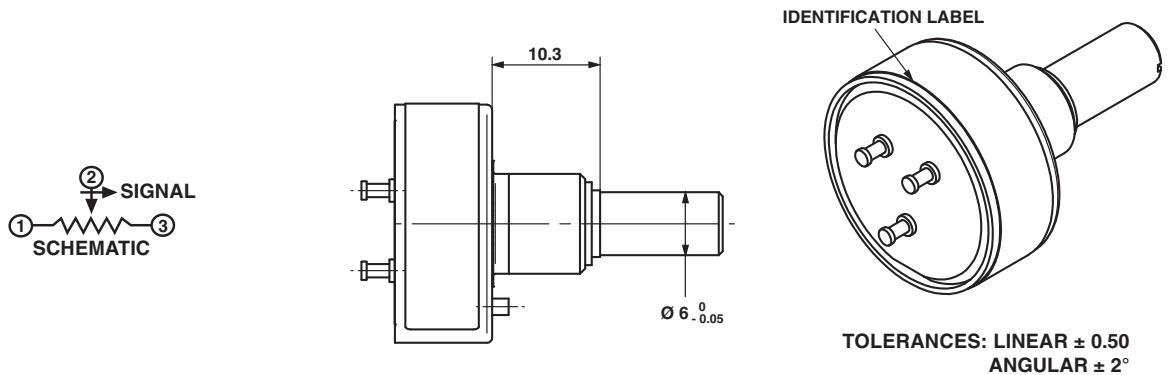
### ORDERING INFORMATION/DESCRIPTION

357	B	0	10K	20 %	A	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 ± 20 %	X: ± 2 % A: ± 1 %		Shaft type P = Plain S = Slotted FMF (from mounting face)	
		2 Non turn pin, with stops on rotation					Range from 12 mm to 75 mm in 1 mm increments	
		3 No non turn pin with stops on rotation						

**SAP PART NUMBERING GUIDELINES**

357B	2	203	M	X	B25	1S22
MODEL	FEATURES	OHMIC VALUE	TOLERANCE ON OHMIC VALUE	LINEARITY	PACKAGING	SHAFT TYPE
		203 = 20K	M: $\pm 20\%$ / K: $\pm 10\%$	X: $\pm 2\%$	Box of 50 pieces	

**DIMENSIONS** in millimeters

**Ø 6.35 mm SHAFT VERSION**

**Ø 6.0 mm SHAFT VARIATION: METRIC**


ENVIRONMENTAL SPECIFICATIONS	
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 Identification	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

**Note**

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



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуреноспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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