

# 1/2" (12.7 mm) Single - Turn Wirewound Servo Mount Type Precision Potentiometer


**FEATURES**

- Ohmic value range: 50 Ω up to 20 kΩ
- Smallest size available: 12.7 mm
- Center tap on request
- Custom shafts available on request
- 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, single turn wirewound
Output type	Output by turrets
Market appliance	Professional
Dimensions	1/2" (12.7 mm)

**ELECTRICAL SPECIFICATIONS**

PARAMETER	
Total Resistance	50 Ω to 20 kΩ
Tolerance	± 5 %
Absolute Minimum Resistance	Linearity x total resistance or 0.5 Ω, whichever is greater
Linearity (independent)	± 1.0 %
Noise	100 Ω ENR
Power Rating	2 W at 40 °C ambient derating linearly to zero at 125 °C
Insulation Resistance	1000 MΩ min. 500 V <sub>DC</sub>
Dielectric Strength	1000 V <sub>RMS</sub> , 60 Hz
Electrical Angle	350° + 0° - 4°
End Voltage	Linearity x total applied voltage for total resistance above 20 Ω; 2.0 % of total applied voltage for 20 Ω and below

**MATERIAL SPECIFICATIONS**

Shaft	Stainless steel, non magnetic non-passivated
Housing	Aluminum, anodized
Rear Lid	Molded glass filled thermoset plastic
Terminals	Brass, gold plated

**ENVIRONMENTAL SPECIFICATIONS**

Vibration	20 g thru 2000 Hz
Shock	50 g
Salt Spray	96 h
Rotational Life	500 000 shaft revolutions
Load Life	900 h
Temperature Range	- 55 °C to + 125 °C (operating)

**ORDERING INFORMATION/DESCRIPTION**

142S	0	0	10K	BO10
MODEL	MECHANICAL OPTIONS	SPECIAL FEATURE	OHMIC VALUE	PACKAGING
	0. Continuous rotation, plain shaft (std.)	0. Standard torque 1. Center tap (10K max. Rt)		Box of 10 pieces

**SAP PART NUMBERING GUIDELINES**

142S	0	1	502	B10
MODEL	MECHANICAL OPTIONS	SPECIAL FEATURE	OHMIC VALUE	PACKAGING
		1: With center tap	502 = 5K	Box of 10 pieces





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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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