

## Multi-Turn Potentiometer from 5 Turns to 200 Turns (More on Request)


**FEATURES**

- Conductive plastic potentiometer technology
- Big flexibility to adjust the number of turns to the request
- Anodized light alloy housing
- Stainless steel shaft
- Flange mounting
- 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 - multi-turns
Output type	Output by wires
Market appliance	Avionics, industrial
Dimensions	Diameter 1/2" (12.7 mm)

**ELECTRICAL SPECIFICATIONS**

PARAMETER	
Useful electrical travel	1800° to 72 000° ± 5 %
Rated resistance	2 kΩ ± 20 % to 4.7 kΩ ± 20 % (more on request)
Independent linearity	± 2 % (less on request)
Insulation resistance	> 1 GΩ, 500 V <sub>CC</sub>
Test voltage	500 V <sub>AC</sub> / 50 Hz, 1 min
Rated dissipation at 40 °C	0.5 W
Resolution	Infinite
Wiper current	< 1 mA

**MECHANICAL SPECIFICATIONS**

PARAMETER	
Mechanical travel	Useful electrical travel ± 1080° (up to ± 180° on request)
Starting and operating torque	< 50 cN cm
Backlash	< 50° (< 25° on request)
Mounting specification	Flexible coupling between motor element (customer) and potentiometer shaft
Shaft end play	< 0.25 mm
Shaft radial play	< 0.25 mm

**PERFORMANCE**

PARAMETER	
Operating temperature range	-15 °C to +55 °C
Storage temperature range	-55 °C to +85 °C
Life at 250 tr/min	10M rotations (more on request), resistance variation: 5 % max.
Maximum rotation speed	250 rpm (more on request)
Vibration	10 g
Shock	50 g

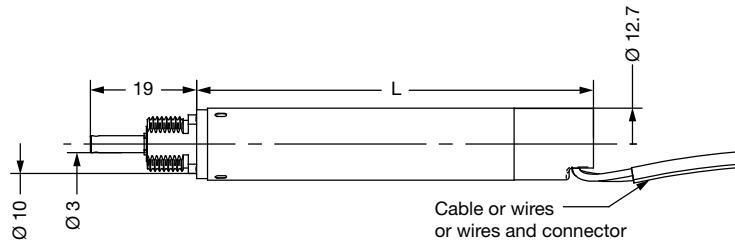
**Note**

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



SAP PART NUMBERING GUIDELINES						
MODEL	USEFUL ELECTRICAL TRAVEL (TURNS)	TYPE	VALUE	LINEARITY	LEADS	PACKAGING
RP12	050 100	T = turns	472 = 4K7	X = 2 %	W = wire	B = bulk

### DIMENSIONS in millimeters



Number of turns	5	10	20	50	100	150	200
Length	59	61	65	77	97	117	137

### OPTIONS (on request)

- Clutching system at the ends of travel
- Bigger number of turns
- Other ohmic value and tolerance on this ohmic value
- Other linearity
- Other shaft and flange designs
- Other temperature ranges



## 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.

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<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

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9