

# Potentiometer WXD3-12-1W, 5%

## Product codes:

Reference: AM3056

EAN13: -

UPC: 85334090

## Product features:

Tolerance: 5%

Performance: 1 W

Number of pins: 3-pin



## Product attributes:

Resistance: 100 Ohm, 100R, 220 Ohm, 220R, 470 Ohm, 470R, 1 kOhm, 1K0, 2.2 kOhm, 2K2, 3.3 kOhm, 3K3, 4.7 kOhm, 4K7, 10 kOhm, 10K, 22 kOhm, 22K, 33 kOhm, 33K, 47 kOhm, 47K

## Product description:

The WXD3-12 series wirewound potentiometer is designed for continuous resistance adjustment in measurement, control and industrial electronics. The design with a rotating shaft and wirewound resistance layer is suitable for applications where mechanical resistance, stable operation and reliable adjustment of electrical parameters are required.

## Technical specifications

- Model series: WXD3-12
- Type: wire potentiometer
- Rated power: 1 W
- Available resistance variants: 100 Ohm, 220 Ohm, 470 Ohm, 1 kOhm, 2.2 kOhm, 3.3 kOhm, 4.7 kOhm, 10 kOhm, 22 kOhm, 33 kOhm, 47 kOhm
- Resistance tolerance:  $\pm 5\%$
- Operating temperature:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Construction: panel, with shaft for manual adjustment

## Functions and features

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- Wire resistance track for stable electrical properties and good load capacity.
- Suitable for setting voltage, current or reference values in analog circuits.
- The mechanical design with mounting thread allows for fixed installation in a panel or device.
- The rotating shaft ensures precise and smooth manual adjustment.
- The range includes multiple resistance variants for easy adaptation to a specific application.

#### **Ideal for**

- Laboratory instruments and measuring equipment
- Industrial control and regulation circuits
- Power supplies and calibration circuits
- Service and development electronic applications
- Devices requiring a robust potentiometer with higher resistance than conventional carbon designs

#### **Package contents**

- 1x wire potentiometer WXD3-12 1W in the selected resistance variant
- 1x fixing nut
- 1x washer

#### **Why choose this product?**

- The wire design is suitable for applications requiring stability and mechanical resistance.
- A wide range of resistance values makes it easy to select for a specific connection.
- Panel mounting with shaft is practical for integration into devices and control cabinets.
- The operating temperature range allows use even in technically more demanding conditions.
- The nominal power of 1 W is suitable for common control and adjustment tasks.

#### **Installation and operating instructions**

- When selecting a resistor variant, it is necessary to take into account the required control range and power load in the circuit.
  - Install the potentiometer in such a way that there is no mechanical stress on the terminals or shaft.
  - For proper function, we recommend checking the connection of the end terminals and the runner before commissioning.
  - When soldering, it is advisable to limit the time of thermal stress on
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the pins to the necessary minimum.

#### **Safety notice**

- The maximum permissible operating voltage must always be assessed with respect to the specific resistance value and power loss in the application.
- If the component is used in circuits with hazardous voltage, installation must be performed by a qualified person.
- When operating in devices with voltages above 60 V DC or in network applications, it is necessary to ensure adequate insulation, shielding and protection against touching live parts.

#### **Product gallery:**

