



## CW18 THICK FILM CERMET ROTARY POTENTIOMETER

### Description

The CW18 is a thick film, layered resistance and track fitted on a ceramic base. The actuating device is an isolated rotor with a carbon wiper, operated by a metal spindle. The resistance element is shielded by a metal housing. The housing is profiled to act as a heatsink. The terminal "a" and "c" (see Fig.) are the end terminals; "b" is the central terminal connected to the slider. All terminals are solder tags. The CW18 potentiometer can be manufactured in standard or hermetic version.

### Applications

CW18 potentiometers are designed for control functions where high dissipation and high stability are necessary. Examples can be found in industrial control functions.

### Quick Reference Data

Resistance range: 100ohms to 2.2Mohms  
 Power dissipation: 1W  
 Limiting voltage 350V  
 Climatic category: 55/100/55

### Specifications:

Parameter	Unit	Value
Rated resistance $R_N$		According to the series 1 – 1.5 – 2.2 – 3.3 – 4.7 – 6.8 – 8 – 10 etc.
Resistance range:	$\Omega$	100 ÷ 2.2 M
Resistance tolerance: for resistance up to 470 k $\Omega$ for resistance higher then 470 k $\Omega$	%	$\pm 20$ $\pm 30$
Characteristic A:		linear
Temperature Coefficient of Resistance TCR:	ppm/ $^{\circ}$ C	$\pm 300$
Power dissipation $P_N$ at 55 $^{\circ}$ C:	W	1
Limiting voltage	V	350
Operating torque:	mNm	$\leq 40$
Climatic category		55/100/56

### Ordering Information:

Please specify in order:

1. Type of potentiometer (CW18); resistance value; shaft length; shaft end (P1, P3, P5):

**Example: CW18 47 k $\Omega$  20 P-3**

2. Type of potentiometer (CW18); resistance value; shaft length; shaft end (P1, P3, P5)  
 hermetic version:

**Example: CW18H 47 k $\Omega$  A 20 P-3**

### Packaging:

In plastic bags and cartons.

## Shape and Dimensions

