



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:	Ω	100 ÷ 2.2 M
Resistance tolerance: for resistance up to 470 k Ω for resistance higher then 470 k Ω	%	± 20 ± 30
Characteristic A:		linear
Temperature Coefficient of Resistance TCR:	ppm/ $^{\circ}$ C	± 300
Power dissipation P_N at 55 $^{\circ}$ C:	W	1
Limiting voltage	V	350
Operating torque:	mNm	≤ 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 Ω 20 P-3

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

Example: CW18H 47 k Ω A 20 P-3

Packaging:

In plastic bags and cartons.

Shape and Dimensions

