



PC199 THICK FILM ROTARY POTENTIOMETER TYPE PC (P)-199(R)

Description

The PC-199 is a thick film layer resistance rotary potentiometer mounted on a ceramic base. The actuating device is an isolated rotor with a carbon wiper, operated by a metal shaft. The resistance element is shielded by a metal housing.

The terminal "a" and "c" (see fig.) are the end terminals; "b" is a central terminal connected to the slider. Terminals can be pins for direct mounting at circuit board (PC) or solder tags for cables (PCP). Potentiometers with additional marking "R" are for significantly higher running torque. The PC-199 is manufactured with linear characteristic (A) and can be as standard or hermetic version (H) – on request.

Applications

PC-199 potentiometers are predestined for control function where high dissipation and high stability are necessary, in industrial control devices.

Quick Reference Data

Resistance range: 100ohms to 2.2Mohms
Power dissipation: 1W
Limiting voltage 350V
Climatic category: 55/100/56

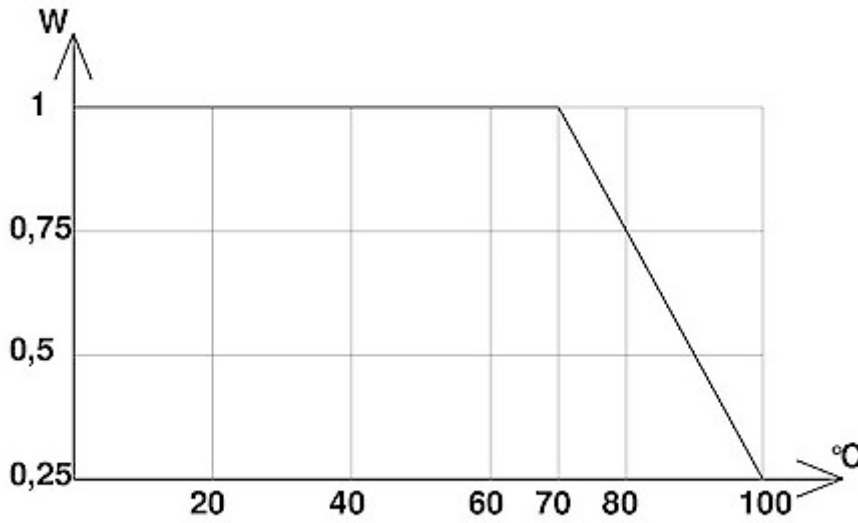
Specifications:

Parameter	Value
Rated resistance RN	According to the series E6 (1 - 1, 5 - 2, 2 - 3, 3 - 4, 7 - 6, 8 - 10 etc.)
Resistance tolerance (%)	±20% for RN ≤ 470kΩ ±30% for RN > 470kΩ ±10% on request
Resistance range: A (linear) (Ω)	100 ÷ 4,7M
Power dissipation PN at T= 40°C: (W)	1,0
Voltage limit: (V)	350
Rotational life (Cycles)	100000
Climatic category	55/100/56
Mechanical angle	240° ±10°
Electrical angle	230° ±10°

Packing:

The potentiometers are supplied in bulk backing in a plastic bags and in a carton box.

Load Diagram



Derating curve: Potentiometers are derated from 100% rated dissipation at 40°C to 25% rated dissipation at 70°C.

Shape and Dimensions

