

Attribute	Details
Name	Potentiometer (e.g., 10k Rotary Potentiometer)
Unique ID	-
Manufacturer	-
Model	-
Dimensions	Varies (typically small, standard 10mm-15mm diameter)
Weight	Lightweight, PCB or through-hole mounted
Operating Voltage	Typically 3.3V - 5V or as required by circuit design
Temperature Range	-30°C to +75°C (varies by manufacturer)
Humidity Tolerance	Generally unaffected, but should avoid moisture
Sensitivity Adjustment	Adjustable via mechanical rotation (for rotary potentiometers)
Input	Electrical signal input (voltage)
Output	Variable resistance (can be read as a voltage divider output)
Process Model	Resistance changes linearly with adjustment of the potentiometer's wiper
Resistance Range	Typically 0 to 10k, 50k, 100k (depending on the potentiometer model)
Response Time	Instantaneous adjustment based on the mechanical movement of the wiper
Application	Volume control, signal adjustment, sensor calibration, etc.
Calibration	May require recalibration based on application or tolerance