

What <u>primarily determines</u> the magnitude of resistance in a material

The physical structure of the material

The level of temperature

The type of current flowing through it



4.







The opposition to current flow is greater in a material with fewer free

Stechans



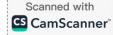
What does a low electrical resistivity indicate about a material

V R

It readily allows the movement of electrical charge.

It has a high resistance to electrical current.

It has a longer length than conductors.



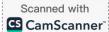
6.







Electrical resistivity is a measure of how strongly a material opposes the flow of electrical





What is the relationship between the resistance of a conductor and its length

RTILS
The Longer Longon of 812e
of-wire the graver R

Resistance is inversely proportional to length

Resistance is directly proportional to length

Resistance is independent of length





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What is the term used to describe a material whose resistance increases with an increase in temperature

 Ω

Negative temperature coefficient of resistance

Positive temperature coefficient of resistance

Constant temperature coefficient of resistance









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A material whose resistance decreases with an increase in temperature has a

negano

temperature coefficient of resistance

posimic: RETT Sirch progume: RTT inverse





Which material is noted for having a negative temperature coefficient of resistance

Copper

Carbon

Silver







Most conductors used in electronic applications have a positive temperature coefficient of resistance, while

is a frequently used material that has a negative temperature coefficient of resistance



What happens to the - or + 103 conductance of a material when the temperature increases

There is misternes in the question it is suppose mention it positive or negative

Positive temperature conflictent:

RTTTTEEL

Maganire temperature conflictent

RTTTTIME

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REGIONALE

REGIONAL

It remains constant

It decreases

It increases



14.







Conductance is directly proportional to

and inversely proportional to the length of the material

C α Δ Δ

inversely

What are resistors specifically manufactured to possess

Voltage

Specific values of resistance

Capacitance









Components known as

Rester

are manufactured to possess specific values of resistance









What is the tolerance percentage for fixed resistors that have no fourth colour band

25%

10%

20%

1%





What happens to the total resistance in a rheostat when the slider arm moves toward point A

BANNAM

The total resistance increases

moved from A to pom & B

The total resistance remains constant

The total resistance decreases

towars pount A

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A rheostat is a variable resistor used to vary the amount of

flowing in a circuit

CUI____





What happens to the voltage applied to the load when the slider arm of the potentiometer is moved to point 3

The voltage increases.

The voltage applied to the load is zero.

The voltage is halved.









The potentiometer is used to vary the in a circuit

How does the resistance between the terminals and the wiper of a linear potentiometer change with the position of the wiper

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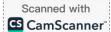
The wiper Varies lineary with possion of wiper

It varies linearly

It varies exponentially

It remains constant









What characterizes a thermistor in terms of resistance and temperature

The resistance increases as temperature increases.

The resistance remains constant regardless of temperature.

The resistance decreases as temperature increases.

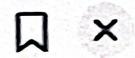
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A thermistor is a type of variable resistor that is sensitive to

Tempuralma

What distinguishes a photoconductive cell from a thermistor in terms of its resistance control

It is controlled by temperature variations.

It is controlled by light intensity.

It has a constant resistance value.







The resistance of a photoconductive cell is controlled by

intensity

What condition indicates that a Wheatstone Bridge is balanced

when
$$V_G = 0$$

$$V_G = 0$$

$$R_X = R_2$$

Under what condition does R_X equal R_POT according to the information provided

$$Px = Pat$$

$$V_G = 0$$

$$R_C = R_3$$

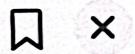
When voltage V_G is greater than 0

When voltage V_G is 0 and R_1 equals R_3

When R_2 is less than R_POT



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A circuit constructed of three resistors of known value and a voltmeter used to determine the value of a forth resistor in the circuit is called a

