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a resistor is a passive two terminal electrical component that implements electrical resistance as a circuit element in electronic circuits resistors are used to reduce current flow adjust signal levels to divide voltages bias active elements and terminate transmission lines among other uses resistors capacitors and inductors are the three fundamental passive circuit elements used in electric circuits together they constitute the three fundamental building blocks of classical electrical engineering resistors are components that resist the flow of electric current resistors are passive electrical elements meaning they can't provide energy to a circuit instead they absorb energy and release it as heat when current flows through them resistors in electrical and electronic circuits limit current flow and create voltage drops an electric circuit element that introduces an electrical friction or resistance in the path of electric current is called a resistor the characteristic by which it opposes the flow of current is known as resistance the resistance of a resistor is denoted by symbol R and measured in ohms Ω a resistor is a passive two terminal electrical component that limits the current flowing in electrical or electronic circuits its property to resist the flow of current is called resistance expressed in ohm Ω named after german physicist georg simon ohm explore the world of circuit analysis with the three fundamental circuit elements resistors capacitors and inductors understand their unique symbols properties and the key equations that connect voltage and current for each component

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