

Conductance Calculator

Converts resistance to conductance in siemens for reciprocal circuit relationships and parallel-network checks.

Generated October 10, 2026

<https://www.elecatrrix.com/voltage-current-resistance/conductance-calculator/>

Inputs

Input	Value	Unit
Resistance	10	ohm

Results

Result	Value	Unit
Conductance	0.1	S

Calculation details

Detail	Value	Unit
Calculation basis	Conductance is the reciprocal of resistance.	
Boundary	This is ideal reciprocal arithmetic. It does not evaluate tolerance, temperature coefficient, power rating, or equipment suitability.	

Formulas

$$G = (1/R)$$

$$1 \text{ S} = 1 \text{ A/V}$$

Warnings and limitations

This is ideal circuit arithmetic. Verify the actual component, operating temperature, tolerance, and power dissipation before applying the result to hardware.