

$$V = A \cdot \Omega = mA \cdot K\Omega = \mu A \cdot M\Omega$$

$$mV = mA \cdot \Omega = \mu A \cdot K\Omega$$

$$\mu V = \mu A \cdot \Omega$$

$$V = \frac{W}{A} = \frac{mW}{mA} = \frac{\mu W}{\mu A}$$

$$mV = \frac{\mu W}{mA}$$

$$\mu V = \frac{\mu W}{A}$$

$$V = \sqrt{W \cdot \Omega}$$

$$mV = \sqrt{\mu W \cdot \Omega}$$

$$\mu V = 1000 \sqrt{\mu W \cdot \Omega} \quad U = \sqrt{P \cdot R}$$

$$U = I \cdot R$$

$$U = \frac{P}{I}$$

V = Volt

U

Spannung

$$A = \frac{V}{\Omega}$$

$$mA = \frac{V}{K\Omega} = \frac{mV}{\Omega}$$

$$\mu A = \frac{V}{M\Omega}$$

$$A = \frac{W}{V} = \frac{mW}{mV} = \frac{\mu W}{\mu V}$$

$$mA = \frac{mW}{V} = \frac{\mu W}{mV}$$

$$\mu A = \frac{\mu W}{V}$$

$$A = \sqrt{\frac{W}{\Omega}}$$

$$mA = \sqrt{\frac{mW}{K\Omega}}$$

$$\mu A = \sqrt{\frac{\mu W}{M\Omega}}$$

$$I = \frac{U}{R}$$

$$I = \frac{P}{U}$$

A = Ampere

I

Strom

$$I = \sqrt{\frac{P}{R}}$$

$$\Omega = \frac{V}{A} = \frac{mV}{mA}$$

$$K\Omega = \frac{V}{mA} = \frac{mV}{\mu A}$$

$$M\Omega = \frac{V}{\mu A}$$

$$R = \frac{U}{I}$$

Widerstand

R

Ω = Ohm

$$R = \frac{U^2}{P}$$

$$\Omega = \frac{V^2}{W} = \frac{mV^2}{\mu W}$$

$$\Omega = \frac{V^2}{mW}$$

$$\Omega = \frac{V^2}{\mu W}$$

$$\Omega = \frac{W}{A^2}$$

$$K\Omega = \frac{mW}{mA^2}$$

$$M\Omega = \frac{W}{mA^2} = \frac{\mu W}{\mu A^2}$$

$$R = \frac{P}{I^2}$$

Leistung

P

W = Watt

$$P = U \cdot I$$

$$P = \frac{U^2}{R}$$

$$P = I^2 \cdot R$$

$$mW = mA^2 \cdot k\Omega$$

$$\mu W = mA^2 \cdot M\Omega$$

$$W = A^2 \cdot \Omega = mA^2 \cdot M\Omega$$

$$W = V \cdot A$$

$$mW = V \cdot mA$$

$$mW = mV \cdot A$$

$$\mu W = mV \cdot mA$$

$$W = \frac{V^2}{\Omega}$$

$$mW = \frac{V^2}{K\Omega}$$

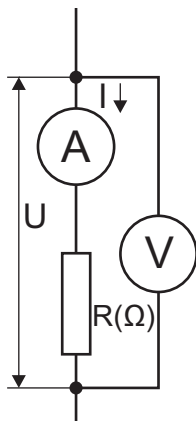
$$\mu W = \frac{mV^2}{\Omega} = \frac{V^2}{M\Omega}$$

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Ohmsches Dreieck



$$U = \frac{U}{I \cdot R}$$



$$R = \frac{U}{I \cdot R}$$

U	V	mV	μV	I	A	mA	μA
1V=	1	1000	10^6	1A=	1	1000	10^6
1mV=	0,001	1	1000	1mA=	0,001	1	1000
1 μV =	10^{-6}	0,001	1	1 μA =	10^{-6}	0,001	1
R	Ω	K Ω	M Ω	P	W	mW	μW
1 Ω =	1	0,001	10^{-6}	1W=	1	1000	10^6
1K Ω =	1000	1	0,001	1mW=	0,001	1	1000
1M Ω =	10^6	1000	1	1 μW =	10^{-6}	0,001	1