

### Variables

E	Voltage in Volts
I	Current in Amperes (A)
R	Resistance in Ohms ( $\Omega$ )
P	Power in Watts (W)

### Formulas

300 Frequency (MHz) x Wavelength  
= (Meters)

E I x R (Ohm's Law)

P E x I

### Prefixes

giga	G	1,000,000,000	GHz
mega	M	1,000,000	MHz
kilo	k	1,000	KHz
		1	Hz
milli	m	0.001	thousandth
micro	$\mu$	0.000 001	millionth
nano	n	0.000 000 001	billionth
pico	p	0.000 000 000 001	

Sometimes these are written as exponents in scientific notation.

For values > 1:  $10^{(\text{number of places})}$

- ex: Kilo:  $10^3 = 1,000$

For Values < 1:  $10^{(-\text{number of places})}$ [negative]

- ex: milli:  $10^{-3} = 0.001$



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