Units

pico	p	÷1 000 000 000 000	10^{-12}
nano	n	÷1 000 000 000	10^{-9}
micro	µ	÷1 000 000	10^{-6}
milli	m	÷1 000	10^{-3}
kilo	k	•1 000	10^{3}
mega	M	•1 000 000	10^{6}
giga	G	•1 000 000 000	10^{9}

Resistor Color Codes

Color	Digit	Multiplyer	Tolerance
Black	0	• 1	
Brown	1	• 10	1%
Red	2	• 100	2%
Orange	3	• 1000	
Yellow	4	• 10 000	
Green	5	• 100 000	
Blue	6	• 1 000 000	
Violet	7	• 10 000 000	
Grey	8	• 100 000 000	
White	9	• 1 000 000 000	
Gold			5%
Silver			10%

Ohm's Law

V = IR

Volts = Amperes • Ohms

Kirchoff's Laws

Kirchoff's Current Law:

IIN=IOUT

Kirchoff's Voltage Law(1)

The voltage between any two points in a circuit is equal to the sum of the voltage drops along any path connecting those points

Kirchoff's Voltage Law(2)

The sum of the voltage drops around any closed circuit is zero

Resistors in Series

V1=IR1 *Ohm's Law*

V2=IR2

VTOTAL=V1+V2 *Kirchoff's Voltage Law*

∴VTOTAL=IR1 + IR2

∴VTOTAL=I(R1+R2)

Resistors in Parallel

I1=V/R1 *Ohm's Law*

I2=V/R2

ITOTAL=I1+I2 *Kirchoff's Current Law*

∴ITOTAL=V/R1 + V/R2

Applying Oh's Law to the whole circuit:

V/RPARALLEL=ITOTAL=V/R1+V/R2

∴1/RPARALLEL=1/R1+1/R2

Bands

160 Meter	1.8 MHz	
80 Meter	3.5 MHz	
40 Meter	7 MHz	
20 Meter	14 MHZ	
17 Meter	18 MHz	
15 Meter	21 MHz	
12 Meter	24 MHz	
10 Meter	28 MHz	
6 Meter	50 MHZ	
2 Meter	144 MHz	144-146 MHz
70 cm	420 MHz	430-440MHz

By **NeelsK**
cheatography.com/neelsk/

Not published yet.
Last updated 3rd August, 2015.