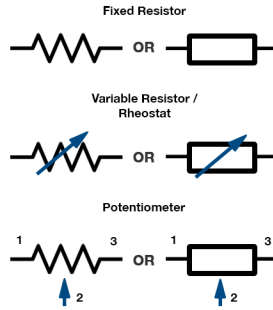


RESISTOR COLOR CODE

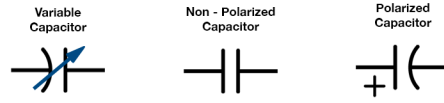


PASSIVE ELECTRONIC SYMBOLS

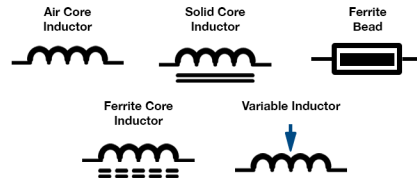
RESISTOR



CAPACITOR

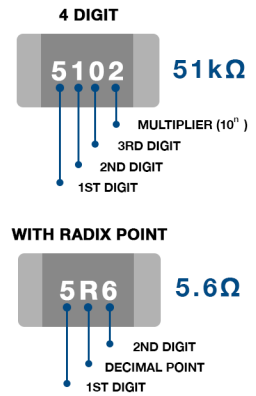


INDUCTOR

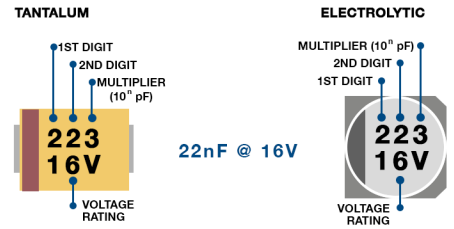


SMD

SMD RESISTOR MARKINGS

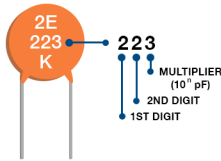


SMD CAPACITOR MARKINGS

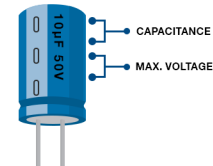


THROUGH HOLE CAPACITOR CODE

CERAMIC



ELECTROLYTIC



TOLERANCE

Code	Percentage
B	± 0.1 pF
C	± 0.25 pF
D	± 0.5 pF
F	$\pm 1\%$
G	$\pm 2\%$
H	$\pm 3\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$
Z	+80%, -20%

MAX. VOLTAGE

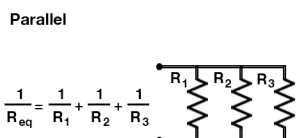
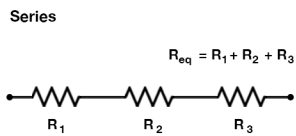
Code	Max. Voltage
1H	50V
2A	100V
2T	150V
2D	200V
2E	250V
2G	400V
2J	630V

CAPACITANCE CONVERSION VALUES

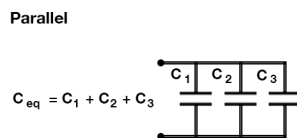
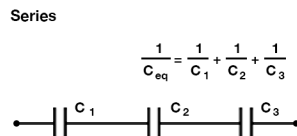
Microfarads (µF)	Nanofarads (nF)	Picofarads (pF)
0.000001 µF	0.001 nF	1 pF
0.00001 µF	0.01 nF	10 pF
0.0001 µF	0.1 nF	100 pF
0.001 µF	1 nF	1,000 pF
0.01 µF	10 nF	10,000 pF
0.1 µF	100 nF	100,000 pF
1 µF	1,000 nF	1,000,000 pF
10 µF	10,000 nF	10,000,000 pF
100 µF	100,000 nF	100,000,000 pF

R, L, C IN SERIES / PARALLEL

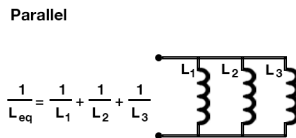
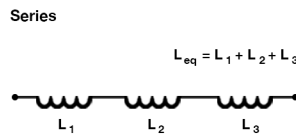
RESISTOR NETWORK



CAPACITOR NETWORK

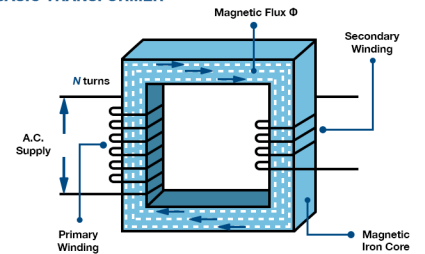


INDUCTOR NETWORK

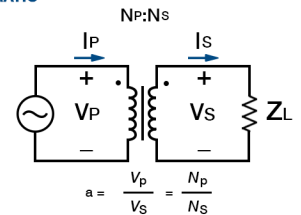


TRANSFORMER

BASIC TRANSFORMER

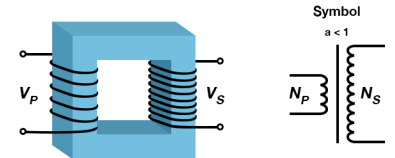


TURNS RATIO



Where for a step-down transformer $a > 1$, for a step-up transformer $a < 1$.

STEP-UP TRANSFORMER



STEP-DOWN TRANSFORMER

