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ELECTRONICS CHEAT SHEET POSTER

Your special reference companion to learning, understanding and remembering your electronics projects

Ohm's Law



American Wire Gauge

AWG	Diameter (in)	Area (in²)	Resistance (ohms/1000ft)	Current (A)
1	0.4433	0.2081	0.000161	100
2	0.3249	0.1075	0.000318	70
3	0.2576	0.0675	0.000509	50
4	0.2043	0.0424	0.000791	35
5	0.1924	0.0386	0.000878	30
6	0.1620	0.0275	0.001249	25
7	0.1496	0.0242	0.001395	20
8	0.1275	0.0159	0.002161	15
9	0.1190	0.0143	0.002381	12
10	0.1094	0.0127	0.002637	10
11	0.1019	0.0113	0.002946	8
12	0.0932	0.0102	0.003264	6
13	0.0848	0.0091	0.003619	5
14	0.0769	0.0081	0.004016	4
15	0.0694	0.0072	0.004459	3
16	0.0630	0.0064	0.004949	2
17	0.0569	0.0057	0.005488	1
18	0.0519	0.0051	0.006081	1
19	0.0470	0.0045	0.006730	1
20	0.0426	0.0040	0.007438	1
21	0.0384	0.0035	0.008207	1
22	0.0345	0.0031	0.009049	1
23	0.0308	0.0027	0.009966	1
24	0.0274	0.0024	0.010961	1
25	0.0242	0.0021	0.012037	1
26	0.0213	0.0018	0.013197	1
27	0.0187	0.0016	0.014444	1
28	0.0163	0.0014	0.015780	1
29	0.0141	0.0012	0.017208	1
30	0.0123	0.0010	0.018731	1
31	0.0108	0.0009	0.020352	1
32	0.0095	0.0008	0.022074	1
33	0.0084	0.0007	0.023900	1
34	0.0074	0.0006	0.025834	1
35	0.0066	0.0005	0.027880	1
36	0.0058	0.0004	0.029942	1
37	0.0051	0.0003	0.032124	1
38	0.0045	0.0003	0.034430	1
39	0.0039	0.0002	0.036864	1
40	0.0034	0.0002	0.039430	1

Other Units

Quantity to be Conversions	Reference
Resistance	1 ohm = 1000 milliohms
Capacitance	1 farad = 1000 microfarads
Inductance	1 henry = 1000 millihenries
Power	1 watt = 1000 milliwatts
Energy	1 joule = 1000 millijoules
Frequency	1 hertz = 1000 kilohertz
Temperature	1 degree Celsius = 1.8 degrees Fahrenheit
Length	1 meter = 1000 millimeters
Area	1 square meter = 10000 square centimeters
Volume	1 cubic meter = 1000000 cubic centimeters

Joseph Picafort

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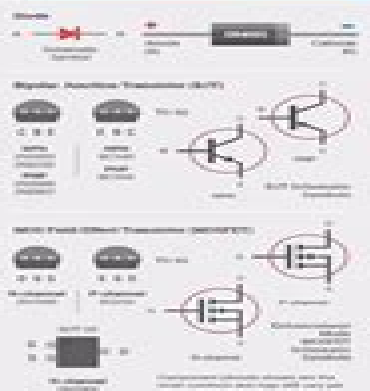
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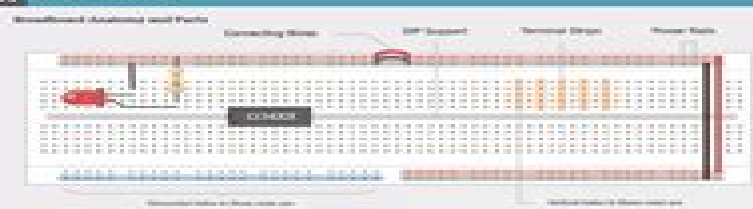
Resistor Color Coding

Band	Color	Value	Multiplier	Value
1	Black	0	1	0
2	Brown	1	10	10
3	Red	2	100	100
4	Orange	3	1000	1000
5	Yellow	4	10000	10000
6	Green	5	100000	100000
7	Blue	6	1000000	1000000
8	Violet	7	10000000	10000000
9	Grey	8	100000000	100000000
10	White	9	1000000000	1000000000

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor	Value	Multiplier	Value
100	100	1	100
1000	1000	10	10000
10000	10000	100	1000000
100000	100000	1000	100000000
1000000	1000000	10000	10000000000
10000000	10000000	100000	1000000000000
100000000	100000000	1000000	100000000000000
1000000000	1000000000	10000000	10000000000000000
10000000000	10000000000	100000000	1000000000000000000
100000000000	100000000000	1000000000	100000000000000000000

Light Emitting Diode (LED)

Color	Wavelength (nm)	Peak Current (mA)
Red	620-630	20
Orange	600-610	20
Yellow	580-590	20
Green	520-530	20
Blue	470-480	20
Violet	400-410	20

Surface Mount Devices (SMDs)

SMD Resistor Markings	Value
100	100
1000	1000
10000	10000
100000	100000
1000000	1000000
10000000	10000000
100000000	100000000
1000000000	1000000000
10000000000	10000000000
100000000000	100000000000

Electrical Units

Quantity	Symbol	Unit
Resistance	R	ohm
Capacitance	C	farad
Inductance	L	henry
Power	P	watt
Energy	E	joule
Frequency	f	hertz

Metric Prefixes

Prefix	Symbol	Value
Kilo	k	1000
Mega	M	1,000,000
Giga	G	1,000,000,000
Tera	T	1,000,000,000,000
Peta	P	1,000,000,000,000,000
Exa	E	1,000,000,000,000,000,000
Zetta	Z	1,000,000,000,000,000,000,000
Yotta	Y	1,000,000,000,000,000,000,000,000
Deci	d	0.1
Centi	c	0.01
Milli	m	0.001
Micro	μ	0.000001
Nano	n	0.000000001
Pico	p	0.000000000001
Femto	f	0.000000000000001
Atto	a	0.000000000000000001
Zepto	z	0.000000000000000000001
Yocto	y	0.000000000000000000000001

Regulation



Op-Amp



555 IC



Make, provide, fix



Electronics Reference Guide

Xiang Xie



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