

TinkrPostr

ELECTRONICS CHEAT SHEET POSTER

Your go-to reference companion for learning, understanding and remembering your electronics projects

Ohm's Law



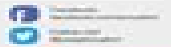
American Wire Gauge

AWG	Diameter (in)	Area (in²)	Resistance (ohm/1000ft)	Current Rating (A)
10	0.1019	0.0103	3.33	30
11	0.0870	0.0076	4.53	25
12	0.0750	0.0058	6.58	20
13	0.0641	0.0044	9.29	16
14	0.0549	0.0033	12.86	12
15	0.0476	0.0025	17.52	10
16	0.0412	0.0019	23.85	8
17	0.0359	0.0014	32.43	6
18	0.0309	0.0011	43.75	5
19	0.0270	0.0008	58.45	4
20	0.0235	0.0006	77.92	3
21	0.0205	0.0004	103.7	2
22	0.0179	0.0003	138.1	1
23	0.0157	0.0002	183.1	1
24	0.0138	0.0001	244.1	1
25	0.0120	0.0001	320.4	1
26	0.0106	0.0000	419.7	1
27	0.0092	0.0000	554.6	1
28	0.0080	0.0000	726.5	1
29	0.0070	0.0000	951.5	1
30	0.0062	0.0000	1250	1
31	0.0054	0.0000	1645	1
32	0.0047	0.0000	2161	1
33	0.0041	0.0000	2865	1
34	0.0035	0.0000	3773	1
35	0.0030	0.0000	4948	1
36	0.0026	0.0000	6462	1
37	0.0022	0.0000	8544	1
38	0.0019	0.0000	11280	1
39	0.0016	0.0000	14890	1
40	0.0014	0.0000	19740	1
41	0.0012	0.0000	26280	1
42	0.0010	0.0000	34400	1
43	0.0009	0.0000	45200	1
44	0.0008	0.0000	59700	1
45	0.0007	0.0000	78900	1
46	0.0006	0.0000	104000	1
47	0.0005	0.0000	137000	1
48	0.0004	0.0000	181000	1
49	0.0003	0.0000	239000	1
50	0.0002	0.0000	315000	1

Other Useful

1. **Checklist for the Designer**
 - 1.1. Verify the design requirements
 - 1.2. Verify the design constraints
 - 1.3. Verify the design specifications
 - 1.4. Verify the design details
 - 1.5. Verify the design performance
 - 1.6. Verify the design reliability
 - 1.7. Verify the design manufacturability
 - 1.8. Verify the design cost
 - 1.9. Verify the design time
 - 1.10. Verify the design risk
2. **Let's Keep It Simple!**
 - 2.1. Simplify the design
 - 2.2. Simplify the components
 - 2.3. Simplify the layout
 - 2.4. Simplify the testing
 - 2.5. Simplify the documentation

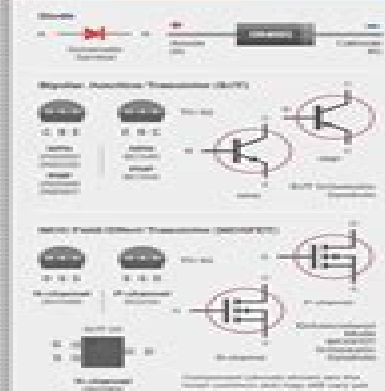
Joseph Picafort



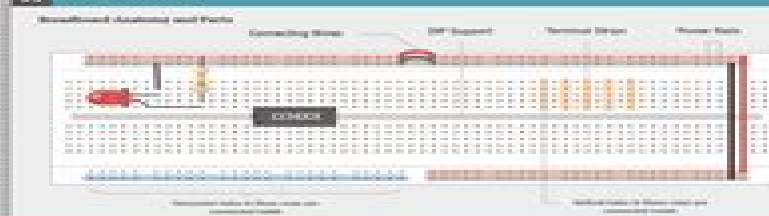
Resistor Color Coding

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

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor	Value	Multiplier	Decimals	Value
100	100	1	0	100
101	100	10	1	1000
102	100	100	2	10000
103	100	1000	3	100000
104	100	10000	4	1000000
105	100	100000	5	10000000
106	100	1000000	6	100000000
107	100	10000000	7	1000000000
108	100	100000000	8	10000000000
109	100	1000000000	9	100000000000

Light Emitting Diode (LED)

Color	Wavelength (nm)	Peak Current (mA)	Peak Voltage (V)
Red	620-630	20	1.8
Yellow	580-590	20	2.0
Green	520-530	20	2.2
Blue	470-480	20	3.0
Violet	400-410	20	3.5

Surface Mount Devices (SMDs)

SMD Resistor Markings	Value	Multiplier	Decimals	Value
100	100	1	0	100
101	100	10	1	1000
102	100	100	2	10000
103	100	1000	3	100000
104	100	10000	4	1000000
105	100	100000	5	10000000
106	100	1000000	6	100000000
107	100	10000000	7	1000000000
108	100	100000000	8	10000000000
109	100	1000000000	9	100000000000

Electrical Units

Quantity	Symbol	Unit	Quantity	Symbol	Unit
Resistance	R	Ohm	Capacitance	C	Farad
Voltage	V	Volt	Inductance	L	Henry
Current	I	Ampere	Power	P	Watt
Energy	E	Joule	Frequency	f	Hertz
Power	P	Watt	Temperature	T	Kelvin

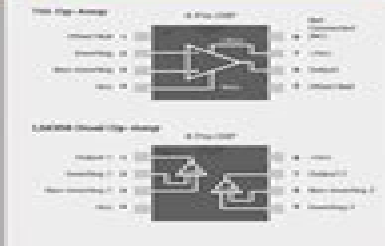
Metric Prefixes

Prefix	Symbol	Factor	Factor (in words)
Kilo	k	10 ³	1,000 times larger
Mega	M	10 ⁶	1,000,000 times larger
Giga	G	10 ⁹	1,000,000,000 times larger
Tera	T	10 ¹²	1,000,000,000,000 times larger
Peta	P	10 ¹⁵	1,000,000,000,000,000 times larger
Exa	E	10 ¹⁸	1,000,000,000,000,000,000 times larger
Zetta	Z	10 ²¹	1,000,000,000,000,000,000,000 times larger
Yotta	Y	10 ²⁴	1,000,000,000,000,000,000,000,000 times larger

Regulation



Op-Amp



555 IC



Make, provide, fix



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J Elliott



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