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ELECTRONICS CHEAT SHEET POSTER

Your quick reference companion to learning, understanding and demystifying your electronics projects

Ohm's Law



American Wire Gauge

AWG	Diameter (in)	Area (in ²)	Resistance (ohms/1000ft)	Resistance (ohms/1000ft)
10	0.1019	0.0103	33.3	33.3
11	0.0871	0.0075	45.3	45.3
12	0.0750	0.0055	65.8	65.8
13	0.0641	0.0040	91.8	91.8
14	0.0549	0.0029	126.1	126.1
15	0.0476	0.0021	175.3	175.3
16	0.0413	0.0015	244.1	244.1
17	0.0360	0.0011	338.1	338.1
18	0.0315	0.0008	471.5	471.5
19	0.0276	0.0006	645.1	645.1
20	0.0241	0.0004	891.3	891.3
21	0.0212	0.0003	1216.5	1216.5
22	0.0187	0.0002	1684.5	1684.5
23	0.0165	0.0001	2300.3	2300.3
24	0.0146	0.0001	3137.1	3137.1
25	0.0129	0.0000	4259.3	4259.3
26	0.0115	0.0000	5813.3	5813.3
27	0.0103	0.0000	7871.3	7871.3
28	0.0092	0.0000	10681.3	10681.3
29	0.0082	0.0000	14591.3	14591.3
30	0.0073	0.0000	19901.3	19901.3
31	0.0065	0.0000	27251.3	27251.3
32	0.0058	0.0000	36851.3	36851.3
33	0.0051	0.0000	50351.3	50351.3
34	0.0045	0.0000	68551.3	68551.3
35	0.0040	0.0000	92851.3	92851.3
36	0.0035	0.0000	126151.3	126151.3
37	0.0031	0.0000	172151.3	172151.3
38	0.0027	0.0000	234151.3	234151.3
39	0.0024	0.0000	318151.3	318151.3
40	0.0021	0.0000	432151.3	432151.3

Other Stuff

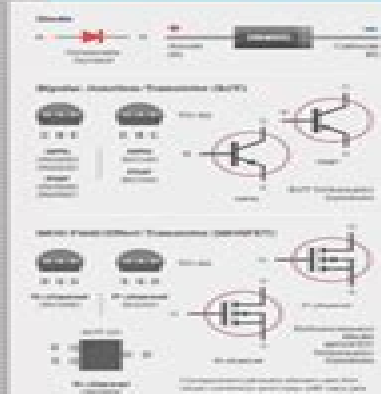
Checklist for the Hobbyist	References
1. Safety: Always wear safety glasses. Never work on live circuits. Use proper grounding techniques.	1. Ohm's Law: $V = IR$
2. Power: Calculate power dissipation for all components. Use appropriate wire gauges.	2. Power: $P = VI$
3. Resistance: Measure resistance accurately. Use color codes for resistors.	3. Resistance: $R = V/I$
4. Capacitance: Measure capacitance accurately. Use appropriate values for timing circuits.	4. Capacitance: $C = Q/V$
5. Inductance: Measure inductance accurately. Use appropriate values for magnetic circuits.	5. Inductance: $L = \Phi/I$
6. Frequency: Measure frequency accurately. Use appropriate values for oscillators.	6. Frequency: $f = 1/T$
7. Voltage: Measure voltage accurately. Use appropriate values for power supplies.	7. Voltage: $V = IR$
8. Current: Measure current accurately. Use appropriate values for power supplies.	8. Current: $I = V/R$

Joseph Picafort

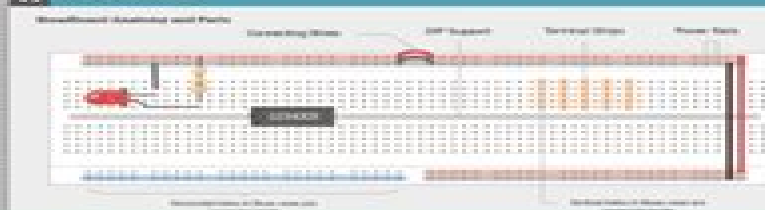
Resistor Color Coding

Band	Color	Value	Multiplier	Tolerance
1	Black	0		
2	Brown	1		
3	Red	2		
4	Orange	3		
5	Yellow	4		
6	Green	5		
7	Blue	6		
8	Violet	7		
9	Grey	8		
10	White	9		
11	Gold		0.1	5%
12	Silver		0.01	10%

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor Value	Multiplier	Capacitance (pF)
100	1	100 pF
101	1	100 pF
102	1	100 pF
103	1	100 pF
104	1	100 pF
105	1	100 pF
106	1	100 pF
107	1	100 pF
108	1	100 pF
109	1	100 pF
110	1	100 pF
111	1	100 pF
112	1	100 pF
113	1	100 pF
114	1	100 pF
115	1	100 pF
116	1	100 pF
117	1	100 pF
118	1	100 pF
119	1	100 pF
120	1	100 pF
121	1	100 pF
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124	1	100 pF
125	1	100 pF
126	1	100 pF
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Electronics Guide

Camilla Rothe



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