

TinkrPostr

ELECTRONICS CHEAT SHEET POSTER

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

Ohm's Law



American Wire Gauge

AWG	Diameter (in)	Area (in ²)	Resistance (ohm/1000ft)	Resistance (ohm/1000ft)
10	0.1019	0.0103	33.3	33.3
11	0.0870	0.0075	45.3	45.3
12	0.0750	0.0055	65.8	65.8
13	0.0660	0.0040	91.5	91.5
14	0.0579	0.0029	126.1	126.1
15	0.0500	0.0021	174.2	174.2
16	0.0441	0.0015	240.1	240.1
17	0.0390	0.0011	328.1	328.1
18	0.0349	0.0008	443.3	443.3
19	0.0315	0.0006	599.5	599.5
20	0.0281	0.0004	808.1	808.1
21	0.0250	0.0003	1095.0	1095.0
22	0.0226	0.0002	1472.4	1472.4
23	0.0201	0.0001	1993.3	1993.3
24	0.0179	0.0001	2705.3	2705.3
25	0.0160	0.0000	3619.1	3619.1
26	0.0143	0.0000	4847.6	4847.6
27	0.0128	0.0000	6488.5	6488.5
28	0.0115	0.0000	8761.9	8761.9
29	0.0104	0.0000	11700.0	11700.0
30	0.0093	0.0000	15610.0	15610.0
31	0.0083	0.0000	21000.0	21000.0
32	0.0075	0.0000	28200.0	28200.0
33	0.0067	0.0000	37700.0	37700.0
34	0.0060	0.0000	50300.0	50300.0
35	0.0054	0.0000	67100.0	67100.0
36	0.0048	0.0000	89600.0	89600.0
37	0.0043	0.0000	120000.0	120000.0
38	0.0039	0.0000	160000.0	160000.0
39	0.0035	0.0000	212000.0	212000.0
40	0.0031	0.0000	284000.0	284000.0
41	0.0028	0.0000	380000.0	380000.0
42	0.0025	0.0000	508000.0	508000.0
43	0.0022	0.0000	684000.0	684000.0
44	0.0020	0.0000	920000.0	920000.0
45	0.0018	0.0000	1240000.0	1240000.0
46	0.0016	0.0000	1680000.0	1680000.0
47	0.0014	0.0000	2280000.0	2280000.0
48	0.0013	0.0000	3080000.0	3080000.0
49	0.0011	0.0000	4160000.0	4160000.0
50	0.0010	0.0000	5590000.0	5590000.0

Other Stuff

Checklist for the Hobbyist	References
• Safety: Always wear safety glasses and avoid touching hot components.	• Ohm's Law
• Power: Always use proper power ratings for components.	• Power Dissipation
• Voltage: Always use proper voltage ratings for components.	• Voltage Regulation
• Current: Always use proper current ratings for components.	• Current Limiting
• Temperature: Always use proper temperature ratings for components.	• Temperature Control
• Humidity: Always use proper humidity ratings for components.	• Humidity Control
• Dust: Always use proper dust ratings for components.	• Dust Control
• Static: Always use proper static ratings for components.	• Static Control
• ESD: Always use proper ESD ratings for components.	• ESD Control
• Grounding: Always use proper grounding for components.	• Grounding Control
• Shielding: Always use proper shielding for components.	• Shielding Control
• Labeling: Always use proper labeling for components.	• Labeling Control
• Documentation: Always use proper documentation for components.	• Documentation Control

Joseph Picafort

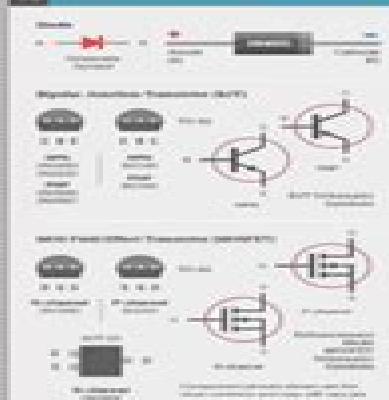
Let's Keep it Simple

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Resistor Color Coding

Band	Color	Value	Multiplier	Value	Multiplier	Value	Multiplier
1	Black	0	10 ⁰	10	10 ¹	100	10 ²
2	Brown	1	10 ¹	100	10 ²	1000	10 ³
3	Red	2	10 ²	1000	10 ³	10000	10 ⁴
4	Orange	3	10 ³	10000	10 ⁴	100000	10 ⁵
5	Yellow	4	10 ⁴	100000	10 ⁵	1000000	10 ⁶
6	Green	5	10 ⁵	1000000	10 ⁶	10000000	10 ⁷
7	Blue	6	10 ⁶	10000000	10 ⁷	100000000	10 ⁸
8	Violet	7	10 ⁷	100000000	10 ⁸	1000000000	10 ⁹
9	Grey	8	10 ⁸	1000000000	10 ⁹	10000000000	10 ¹⁰
10	White	9	10 ⁹	10000000000	10 ¹⁰	100000000000	10 ¹¹

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor Coding	Value	Multiplier	Value	Multiplier	Value	Multiplier
1	100	10 ⁰	1000	10 ³	10000	10 ⁴
2	1000	10 ¹	10000	10 ²	100000	10 ³
3	10000	10 ²	100000	10 ³	1000000	10 ⁴
4	100000	10 ³	1000000	10 ⁴	10000000	10 ⁵
5	1000000	10 ⁴	10000000	10 ⁵	100000000	10 ⁶
6	10000000	10 ⁵	100000000	10 ⁶	1000000000	10 ⁷
7	100000000	10 ⁶	1000000000	10 ⁷	10000000000	10 ⁸
8	1000000000	10 ⁷	10000000000	10 ⁸	100000000000	10 ⁹
9	10000000000	10 ⁸	100000000000	10 ⁹	1000000000000	10 ¹⁰

Light Emitting Diode (LED)

Color	Wavelength (nm)	Peak Current (mA)	Peak Voltage (V)
Red	620-630	20	1.8-2.2
Yellow	580-590	20	2.0-2.4
Green	520-530	20	2.5-3.0
Blue	470-480	20	3.0-3.6
Violet	400-410	20	3.6-4.0

Surface Mount Devices (SMDs)

SMD Resistor Markings	Value	Multiplier	Value	Multiplier	Value	Multiplier
100	100	10 ⁰	1000	10 ³	10000	10 ⁴
1000	1000	10 ¹	10000	10 ²	100000	10 ³
10000	10000	10 ²	100000	10 ³	1000000	10 ⁴
100000	100000	10 ³	1000000	10 ⁴	10000000	10 ⁵
1000000	1000000	10 ⁴	10000000	10 ⁵	100000000	10 ⁶
10000000	10000000	10 ⁵	100000000	10 ⁶	1000000000	10 ⁷
100000000	100000000	10 ⁶	1000000000	10 ⁷	10000000000	10 ⁸
1000000000	1000000000	10 ⁷	10000000000	10 ⁸	100000000000	10 ⁹

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	Wavelength	λ	Meter
Frequency	f	Hertz			

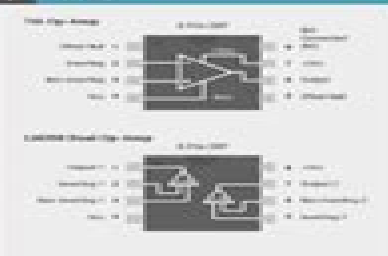
Metric Prefixes

Prefix	Symbol	Value	Value
Kilo	k	10 ³	1,000
Mega	M	10 ⁶	1,000,000
Giga	G	10 ⁹	1,000,000,000
Tera	T	10 ¹²	1,000,000,000,000
Peta	P	10 ¹⁵	1,000,000,000,000,000
Exa	E	10 ¹⁸	1,000,000,000,000,000,000
Zetta	Z	10 ²¹	1,000,000,000,000,000,000,000
Yotta	Y	10 ²⁴	1,000,000,000,000,000,000,000,000

Regulator



Op-Amp



555 IC



Make it Possible for



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Clemens Wendtner



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