

TinkrPostr

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 (ohm/1000ft)	Current (A)
1	0.4433	0.2081	0.000161	100
2	0.3228	0.1075	0.000318	70
3	0.2576	0.0676	0.000508	50
4	0.2043	0.0424	0.000791	35
5	0.1924	0.0387	0.000878	30
6	0.1620	0.0276	0.001261	25
7	0.1496	0.0243	0.001410	20
8	0.1275	0.0166	0.002061	15
9	0.1190	0.0150	0.002264	12
10	0.1094	0.0133	0.002527	10
11	0.1019	0.0120	0.002826	8
12	0.0931	0.0107	0.003157	6
13	0.0849	0.0095	0.003528	5
14	0.0769	0.0084	0.003939	4
15	0.0699	0.0074	0.004392	3
16	0.0631	0.0065	0.004888	2
17	0.0563	0.0057	0.005429	1
18	0.0500	0.0050	0.006015	1
19	0.0441	0.0044	0.006648	1
20	0.0391	0.0039	0.007327	1
21	0.0349	0.0035	0.008063	1
22	0.0315	0.0031	0.008860	1
23	0.0281	0.0028	0.009724	1
24	0.0250	0.0025	0.010670	1
25	0.0226	0.0022	0.011700	1
26	0.0201	0.0020	0.012810	1
27	0.0180	0.0018	0.014000	1
28	0.0160	0.0016	0.015280	1
29	0.0142	0.0014	0.016650	1
30	0.0126	0.0012	0.018110	1
31	0.0112	0.0011	0.019670	1
32	0.0100	0.0010	0.021330	1
33	0.0089	0.0009	0.023100	1
34	0.0080	0.0008	0.024980	1
35	0.0072	0.0007	0.026980	1
36	0.0064	0.0006	0.029110	1
37	0.0057	0.0005	0.031370	1
38	0.0051	0.0004	0.033770	1
39	0.0045	0.0004	0.036310	1
40	0.0040	0.0003	0.038990	1

Other Units

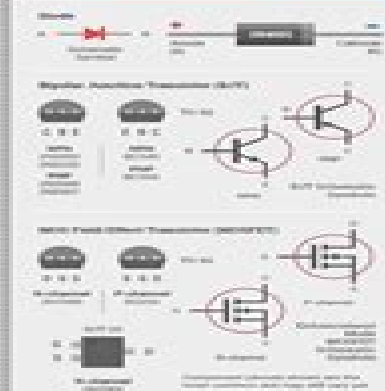
Quantity to be Translated	Reference
1. Voltage	1V = 1000mV
2. Current	1A = 1000mA
3. Power	1W = 1000mW
4. Resistance	1Ω = 1000mΩ
5. Capacitance	1F = 1000μF
6. Inductance	1H = 1000mH
7. Frequency	1Hz = 1000kHz
8. Length	1m = 1000mm
9. Area	1m² = 1000000mm²
10. Volume	1m³ = 1000000000mm³
11. Mass	1kg = 1000g
12. Temperature	1°C = 1.8°F + 32
13. Time	1min = 60sec
14. Angle	1deg = 60min
15. Density	1g/cm³ = 1000kg/m³
16. Pressure	1Pa = 1N/m²
17. Force	1N = 1000mN
18. Energy	1J = 1000mJ
19. Power	1W = 1000mW
20. Heat	1cal = 4.184J
21. Work	1J = 0.737ft-lb
22. Torque	1N-m = 0.737ft-lb
23. Acceleration	1m/s² = 3.28ft/s²
24. Velocity	1m/s = 2.23ft/s
25. Acceleration	1g = 9.81m/s²
26. Mass	1kg = 2.205lb
27. Length	1m = 3.281ft
28. Area	1m² = 10.76ft²
29. Volume	1m³ = 35.31ft³
30. Density	1g/cm³ = 15.708oz/in³
31. Pressure	1Pa = 0.000145psi
32. Force	1N = 0.2248lb
33. Energy	1J = 0.737ft-lb
34. Power	1W = 0.746hp
35. Heat	1cal = 4.184J
36. Work	1J = 0.737ft-lb
37. Torque	1N-m = 0.737ft-lb
38. Acceleration	1m/s² = 3.28ft/s²
39. Velocity	1m/s = 2.23ft/s
40. Acceleration	1g = 9.81m/s²

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
0	White	9	1000000000	9	1000000000

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor	Value	Multiplier	Value
100	100	1	100
101	100	10	1000
102	100	100	10000
103	100	1000	100000
104	100	10000	1000000
105	100	100000	10000000
106	100	1000000	100000000
107	100	10000000	1000000000
108	100	100000000	10000000000
109	100	1000000000	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
100	100
101	100
102	100
103	100
104	100
105	100
106	100
107	100
108	100
109	100

Electrical Units

Quantity	Symbol	Unit
Voltage	V	Volt
Current	A	Ampere
Power	W	Watt
Energy	J	Joule
Resistance	Ω	Ohm

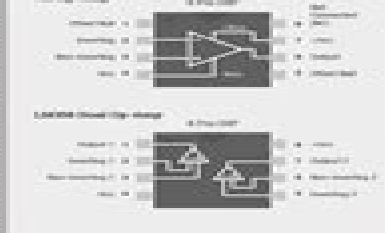
Metric Prefixes

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

Regulation



Op-Amp



555 IC



Make something fun



Electronics Technician Study Guide

JR Anderson



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