

TinkrPostr

ELECTRONICS CHEAT SHEET POSTER

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

Ohm's Law



American Wire Gauge

AWG	Diameter (in)	Area (in ²)	Resistance (ohms/1000ft)	Current (A)
4	0.2043	0.0410	2.58	35
6	0.1620	0.0258	4.11	25
8	0.1285	0.0160	6.45	18
10	0.1043	0.0100	10.15	13
12	0.0833	0.0060	15.85	10
14	0.0671	0.0037	24.85	7.5
16	0.0539	0.0023	39.5	5.5
18	0.0435	0.0014	61.8	4
20	0.0349	0.0009	93.3	3
22	0.0280	0.0005	143.1	2
24	0.0226	0.0003	219.0	1.5
26	0.0179	0.0002	338.3	1
28	0.0142	0.0001	520.1	0.7
30	0.0110	6.3e-05	795.8	0.5
32	0.0087	4.0e-05	1206.3	0.3
34	0.0069	2.5e-05	1815.0	0.2
36	0.0054	1.6e-05	2743.0	0.15
38	0.0043	1.0e-05	4174.0	0.1
40	0.0034	6.3e-06	6305.0	0.07
42	0.0027	4.0e-06	9478.0	0.05
44	0.0021	2.5e-06	14250.0	0.03
46	0.0016	1.6e-06	21500.0	0.02
48	0.0013	1.0e-06	32400.0	0.015
50	0.0010	6.3e-07	49200.0	0.01
52	0.0008	4.0e-07	73600.0	0.007
54	0.0006	2.5e-07	110400.0	0.005
56	0.0005	1.6e-07	166800.0	0.003
58	0.0004	1.0e-07	250000.0	0.002
60	0.0003	6.3e-08	375000.0	0.001

Other Units

Quantity to be Measured	Reference
Resistance	Ohm
Voltage	Volts
Current	Amps
Power	Watts
Frequency	Hertz
Capacitance	Farads
Inductance	Henrys
Temperature	Celsius
Length	Meters
Area	Square Meters
Volume	Cubic Meters
Mass	Kilograms
Time	Seconds

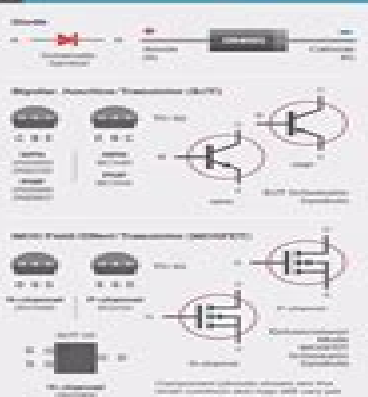
Designed and illustrated by: **Joseph Picafort**

Let's keep it simple!
 This poster is a simplified version of the TinkrPostr project, which is available on GitHub.
 GitHub: <https://github.com/jpicafort/tinkrpostr>
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Resistor Color Coding

Band	Color	Value	Multiplier	Significance
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	Purple	8		
10	Gold		0.1	
11	Silver		0.01	
12	White		1	

Diodes and Transistors



The Breadboard



Capacitor Coding

Capacitor	Value	Multiplier	Significance
100	100		
101	100	0.1	
102	100	0.01	
103	100	0.001	
104	100	0.0001	
105	100	0.00001	
106	100	0.000001	
107	100	0.0000001	
108	100	0.00000001	
109	100	0.000000001	
110	100	0.0000000001	
111	100	0.00000000001	
112	100	0.000000000001	
113	100	0.0000000000001	
114	100	0.00000000000001	
115	100	0.000000000000001	
116	100	0.0000000000000001	
117	100	0.00000000000000001	
118	100	0.000000000000000001	
119	100	0.0000000000000000001	
120	100	0.00000000000000000001	

Light Emitting Diode (LED)

Color	Wavelength (nm)	Peak Current (mA)	Peak Voltage (V)
Red	620-630	20	1.8
Orange	600-610	20	1.8
Yellow	580-590	20	1.8
Green	520-530	20	2.0
Blue	470-480	20	3.0
Violet	400-410	20	3.0
White	450-460	20	3.0
Black	450-460	20	3.0

Surface Mount Devices (SMDs)

SMD Resistor Markings	Value	Multiplier	Significance
100	100		
101	100	0.1	
102	100	0.01	
103	100	0.001	
104	100	0.0001	
105	100	0.00001	
106	100	0.000001	
107	100	0.0000001	
108	100	0.00000001	
109	100	0.000000001	
110	100	0.0000000001	
111	100	0.00000000001	
112	100	0.000000000001	
113	100	0.0000000000001	
114	100	0.00000000000001	
115	100	0.000000000000001	
116	100	0.0000000000000001	
117	100	0.00000000000000001	
118	100	0.000000000000000001	
119	100	0.0000000000000000001	
120	100	0.00000000000000000001	

Electrical Units

Quantity	Symbol	Unit	Symbol	Unit
Resistance	R	Ohm	Resistance	Ohm
Voltage	V	Volts	Voltage	Volts
Current	I	Amps	Current	Amps
Power	P	Watts	Power	Watts
Energy	E	Joules	Energy	Joules
Frequency	f	Hertz	Frequency	Hertz

Metric Prefixes

Prefix	Symbol	Value	Value (in decimal)
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
Deci	d	10 ⁻¹	0.1
Centi	c	10 ⁻²	0.01
Milli	m	10 ⁻³	0.001
Micro	μ	10 ⁻⁶	0.000001
Nano	n	10 ⁻⁹	0.000000001
Pico	p	10 ⁻¹²	0.000000000001
Femto	f	10 ⁻¹⁵	0.000000000000001
Atto	a	10 ⁻¹⁸	0.000000000000000001
Zepto	z	10 ⁻²¹	0.000000000000000000001
Yocto	y	10 ⁻²⁴	0.000000000000000000000001

Regulation



Op-Amp



555 IC



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Controllership Foundation, P. Courtney

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Turner, 2013-10-22 *Electronics Engineer's Reference Book* 4th Edition is a reference book for electronic engineers that reviews the knowledge and techniques in electronics engineering and covers topics ranging from basics to materials and components devices circuits measurements and applications This edition is comprised of 27 chapters the first of which presents general information on electronics engineering including terminology mathematical equations mathematical signs and symbols and Greek alphabet and symbols Attention then turns to the history of electronics electromagnetic and nuclear radiation the influence of the ionosphere and the troposphere on the propagation of radio waves and basic electronic circuits The reader is also introduced to devices such as electron valves and tubes integrated circuits and solid state devices The remaining chapters focus on other areas of electronics engineering including sound and video recording electronic music and radio astronomy and applications of electronics in weather forecasting space exploration and education This book will be of value to electronics engineers and professionals in other engineering disciplines as well as to scientists students management personnel educators and readers with a general interest in electronics and their applications **Reference Guide to Useful Electronic Circuits and Circuit Design Techniques** Kerwin Mathew, 2014-04-20 DESCRIPTION OF BOOK This book has been prepared by the author for practically all types of readers ranging from laymen to engineers Useful electronic circuits and circuit design techniques are covered in the book Many of the electronic circuits in the book had been utilized by the author in his work There is no point in re-inventing electronic circuits when good reference guides are available This reference guide consists of a selected number of electronic circuits which are deemed important These electronic circuits may however be modified to suit field requirements ABOUT THE AUTHOR The author has published about 20 books two of which have been adopted as reference texts and commended by professional bodies He was also the editor of a book of essays He has many years of experience in electronics He has taught many professional management and technical subjects for years He has published a number of important papers including several papers on the solutions to some famous unsolved problems in international research journals and has served on the faculty of an American research university as a professor He has received publicity from the press for some intellectual achievement **Business Electronics Reference Guide**, 1956 *Business Electronics Reference Guide*, 1954 **Robust Electronic Design Reference Book: no special title** John R. Barnes, 2004 If you design electronics for a living you need Robust Electronic Design Reference Book Written by a working engineer who has put over 115 electronic products into production at Sycor IBM and Lexmark Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that Work Are safe and reliable Can be manufactured tested repaired and serviced May be sold and used worldwide Can be adapted or

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Personnel, *User Interface Design of Electronic Appliances* Konrad Baumann, 2001-04-05 This simple and manageable guide to user interface design is written for the professional in industry working on product development and the decision process It is directed not only to the human factors specialists but also to technicians designers marketing and product managers and students The book presents guidelines for user interface d **Complete Electronics Self-Teaching Guide with Projects** Earl Boysen, Harry Kybett, 2012-07-09 An all in one resource on everything electronics related For almost 30 years this book has been a classic text for electronics enthusiasts Now completely updated for today s technology this latest version combines concepts self tests and hands on projects to offer you a completely repackaged and revised resource This unique self teaching guide features easy to understand explanations that are presented in a user friendly format to help you learn the essentials you need to work with electronic circuits All you need is a general understanding of electronics concepts such as Ohm s law and current flow and an acquaintance with first year algebra The question and answer format illustrative experiments and self tests at the end of each chapter make it easy for you to learn at your own speed Boasts a companion website that includes more than twenty full color step by step projects Shares hands on practice opportunities and conceptual background information to enhance your learning process Targets electronics enthusiasts who already have a basic knowledge of electronics but are interested in learning more about this fascinating topic on their own Features projects that work with the multimeter breadboard function generator oscilloscope bandpass filter transistor amplifier oscillator rectifier and more You re sure to get a charge out of the vast coverage included in Complete Electronics Self Teaching Guide with Projects

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