

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	33.5	33.5
11	0.0871	0.0076	42.8	42.8
12	0.0750	0.0058	55.3	55.3
13	0.0658	0.0044	71.8	71.8
14	0.0570	0.0033	92.6	92.6
15	0.0492	0.0025	119.1	119.1
16	0.0431	0.0019	154.4	154.4
17	0.0378	0.0014	200.3	200.3
18	0.0338	0.0011	261.7	261.7
19	0.0300	0.0008	338.1	338.1
20	0.0262	0.0006	439.6	439.6
21	0.0229	0.0004	579.8	579.8
22	0.0201	0.0003	758.3	758.3
23	0.0177	0.0002	994.9	994.9
24	0.0157	0.0001	1291.3	1291.3
25	0.0140	0.0001	1666.1	1666.1
26	0.0125	0.0000	2161.3	2161.3
27	0.0112	0.0000	2835.9	2835.9
28	0.0100	0.0000	3701.5	3701.5
29	0.0089	0.0000	4803.3	4803.3
30	0.0080	0.0000	6265.9	6265.9
31	0.0071	0.0000	8242.0	8242.0
32	0.0063	0.0000	10813.7	10813.7
33	0.0056	0.0000	14188.1	14188.1
34	0.0049	0.0000	18674.1	18674.1
35	0.0043	0.0000	24700.0	24700.0
36	0.0038	0.0000	32766.0	32766.0
37	0.0033	0.0000	43683.0	43683.0
38	0.0029	0.0000	58140.0	58140.0
39	0.0025	0.0000	76830.0	76830.0
40	0.0022	0.0000	101650.0	101650.0

Other Stuff

Checklist for the Hobbyist	References
• Safety: Always wear safety glasses and avoid touching hot components or live circuits.	• Ohm's Law
• Power: Always use the correct power rating for components.	• Power Rating
• Voltage: Always use the correct voltage for components.	• Voltage Rating
• Current: Always use the correct current rating for components.	• Current Rating
• Resistance: Always use the correct resistance value for components.	• Resistance Value
• Temperature: Always use the correct temperature rating for components.	• Temperature Rating
• Humidity: Always use the correct humidity rating for components.	• Humidity Rating
• Pollution: Always use the correct pollution rating for components.	• Pollution Rating
• Shock: Always use the correct shock rating for components.	• Shock Rating
• Vibration: Always use the correct vibration rating for components.	• Vibration Rating
• Corrosion: Always use the correct corrosion rating for components.	• Corrosion Rating
• Aging: Always use the correct aging rating for components.	• Aging Rating
• Storage: Always use the correct storage rating for components.	• Storage Rating
• Handling: Always use the correct handling rating for components.	• Handling Rating
• Testing: Always use the correct testing rating for components.	• Testing Rating
• Repair: Always use the correct repair rating for components.	• Repair Rating
• Replacement: Always use the correct replacement rating for components.	• Replacement Rating
• Disposal: Always use the correct disposal rating for components.	• Disposal Rating
• Recycling: Always use the correct recycling rating for components.	• Recycling Rating
• Reuse: Always use the correct reuse rating for components.	• Reuse Rating
• Repair: Always use the correct repair rating for components.	• Repair Rating
• Replacement: Always use the correct replacement rating for components.	• Replacement Rating
• Disposal: Always use the correct disposal rating for components.	• Disposal Rating
• Recycling: Always use the correct recycling rating for components.	• Recycling Rating
• Reuse: Always use the correct reuse rating for components.	• Reuse Rating

Joseph Picafort

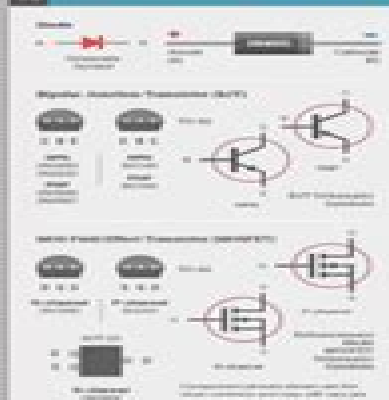
Let's Keep it Simple

For more information on electronics, visit our website at www.tinkrpost.com

Resistor Color Coding

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

Diodes and Transistors



The Breadboard



Capacitor Coding

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

Light Emitting Diode (LED)

Color	Wavelength (nm)	Peak Current (mA)
Red	620-630	20
Yellow	580-590	20
Green	520-530	20
Blue	470-480	20
Violet	400-410	20

Surface Mount Devices (SMDs)

Device	Value	Multiplier	Decimals	Value
100	10 ⁰	0	0	100
1000	10 ¹	1	1	1000
10000	10 ²	2	2	10000
100000	10 ³	3	3	100000
1000000	10 ⁴	4	4	1000000
10000000	10 ⁵	5	5	10000000
100000000	10 ⁶	6	6	100000000
1000000000	10 ⁷	7	7	1000000000
10000000000	10 ⁸	8	8	10000000000
100000000000	10 ⁹	9	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	Wavelength	λ	Meter
Frequency	f	Hertz			

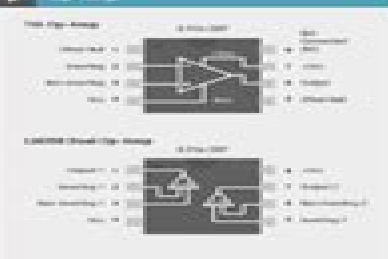
Metric Prefixes

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

Regulator



Op-Amp



555 IC



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PPI Electronics, Controls, and Communications Reference Manual eText - 1 Year John A. Camara, 2019-04-15 New Edition Updated for 2019 John A Camara s Electronics Controls and Communications Reference Manual Second Edition ELRM2 offers complete review for the NCEES PE Electrical and Computer Electronics Controls and Communications exam This book is the most up to date comprehensive reference manual available and is designed to help you pass the exam the first time Topics Covered General Electrical Engineering Digital Systems Electric and Magnetic Field Theory and Applications Electronics Control System Fundamentals National Electrical and Electrical Safety Codes After you pass Your Electronics Controls and Communications Reference Manual will serve as an invaluable reference throughout your electrical engineering career Key Features 300 plus solved example problems that illustrate key concepts Hundreds of figures and tables 40 appendices and 1 500 equations making it possible to work exam problems using the reference manual alone Including an easy to use index and a full glossary for quick reference Recommending a study schedule plus providing tips for successful exam preparation Chapters on protection and safety and power system management Information on phasor notation cosine functions power supplies electronic instrumentation and insulation ground testing and digital modulation Content that exclusively covers the NCEES PE Electrical Electronics Controls and Communications exam specifications Binding Paperback Publisher PPI A Kaplan Company *The Arduino Inventor's Guide* Brian Huang, Derek Runberg, 2017-05-15 With Arduino you can build any hardware project you can imagine This open source platform is designed to help total beginners explore electronics and with its easy to learn programming language you can collect data about the world around you to make something truly interactive The Arduino Inventor s Guide opens with an electronics primer filled with essential background knowledge for your DIY journey From there you ll learn your way around the Arduino through a classic hardware entry point blinking LEDs Over the course of the book 11 hands on projects will teach you how to Build a stop light with LEDs Display the volume in a room on a warning dial Design and build a desktop fan Create a robot that draws with a motor and pens Create a servo controlled balance beam Build your own playable mini piano Make a drag race timer to race toy cars against your friends Each project focuses on a new set of skills including breadboarding circuits reading digital and analog inputs reading magnetic temperature and other sensors controlling servos and motors and talking to your computer and the Web with an Arduino At the end of every project you ll also find tips on how to use it and how to mod it with additional hardware or code What are you waiting for Start making and learn the skills you need to own your technology Uses the Arduino Uno board or SparkFun RedBoard Electronics Engineer's Reference Book F. F. Mazda, 2013-10-22 Electronics Engineer s Reference Book Sixth Edition is a five part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems Part II covers physical phenomena such as electricity light and radiation often met with in electronic systems Part III contains chapters on basic electronic components and materials the building blocks of any

electronic design Part IV highlights electronic circuit design and instrumentation The last part shows the application areas of electronics such as radar and computers

Arduino: A Quick-Start Guide Maik Schmidt, 2015-01-20 Arduino is an open source platform that makes DIY electronics projects easier than ever Gone are the days when you had to learn electronics theory and arcane programming languages before you could even get an LED to blink Now with this new edition of the bestselling Arduino A Quick Start Guide readers with no electronics experience can create their first gadgets quickly This book is up to date for the new Arduino Zero board with step by step instructions for building a universal remote a motion sensing game controller and many other fun useful projects This Quick Start Guide is packed with fun useful devices to create with step by step instructions and photos throughout You ll learn how to connect your Arduino to the Internet and program both client and server applications You ll build projects such as your own motion sensing game controller with a three axis accelerometer create a universal remote with an Arduino and a few cheap parts build your own burglar alarm that emails you whenever someone s moving in your living room build binary dice and learn how to solder In one of several new projects in this edition you ll create your own video game console that you can connect to your TV set This book is completely updated for the new Arduino Zero board and the latest advances in supporting software and tools for the Arduino Sidebars throughout the book point you to exciting real world projects using the Arduino exercises extend your skills and What If It Doesn t Work sections help you troubleshoot common problems With this book beginners can quickly join the worldwide community of hobbyists and professionals who use the Arduino to prototype and develop fun useful inventions What You Need This is the full list of all parts you d need for all projects in the book some of these are provided as part of various kits that are available on the web or you can purchase individually Sources include adafruit com makershed com radioshack com sparkfun com and mouser com Please note we do not support or endorse any of these vendors but we list them here as a convenience for you Arduino Zero or Uno or Duemilanove or Diecimila board USB cable Half size breadboard Pack of LEDs at least 3 10 or more is a good idea Pack of 100 ohm 10k ohm and 1k ohm resistors Four pushbuttons Breadboard jumper wire connector wire Parallax Ping sensor Passive Infrared sensor An infrared LED A 5V servo motor Analog Devices TMP36 temperature sensor ADXL335 accelerometer breakout board 6 pin 0 1 standard header might be included with the ADXL335 Nintendo Nunchuk Controller Arduino Ethernet shield Arduino Proto shield and a tiny breadboard optional but recommended Piezo speaker buzzer optional Tilt sensor optional A 25 30 Watts soldering iron with a tip preferably 1 16 A soldering stand and a sponge A standard 60 40 solder rosin core spool for electronics work

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Android Things Quick Start Guide Raul Portales, 2018-08-31 Android Things is the new Android based Operating System for the Internet of Things With this book you will learn the core concepts by running code examples on different peripherals Key Features No previous knowledge of IoT or microcontrollers required Hands On with simple code and plenty of examples Use Kotlin to write simpler and more readable code Book Description Android Things is the IoT platform made by Google based on Android It allows us to build smart devices in a simple and convenient way leveraging on the Android ecosystem tools and libraries while letting Google take care of security updates This book takes you through the basics of IoT and smart devices It will help you to interact with common IoT device components and learn the underlying protocols For a simple setup we will be using Rainbow HAT so that we don't need to do any wiring In the first chapter you will learn about the Android Things platform the design concepts behind it and how it relates to other IoT frameworks We will look at the Developer Kits and learn how to install Android Things on them by creating a simple project Later we will explore the real power of Android Things learning how to make a UI designing and communicating with companion apps in different ways showcasing a few libraries We will demonstrate libraries and you will see how powerful the Android Things operating system is What you will learn Understand key design concepts of Android Things and its advantages Set up an Android Things Developer Kit Interact with all the components of Rainbow HAT Understand how peripheral protocols work GPIO PWM I2C and SPI Implement best practices of how to handle IoT peripherals with in terms Android Things Develop techniques for building companion apps for your devices Who this book is for This book is for developers who have a basic knowledge of Android and want to start using the Android Things developer kit

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Popular Science, 1951-06 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Raspberry Pi User Guide Eben Upton, Gareth Halfacree, 2014-08-25 The unofficial official guide to the Raspberry Pi complete with creator insight Raspberry Pi User Guide 3rd Edition contains everything you need to know to get up and running with Raspberry Pi This book is the go to guide for Noobs who want to dive right in This updated third edition covers the model B Raspberry Pi and its software additional USB ports and changes to the GPIO including new information on Arduino and Minecraft on the Pi You'll find clear step by step instruction for everything from software installation and configuration to customizing your Raspberry Pi with capability expanding add ons Learn the basic Linux SysAdmin and flexible programming languages that allow you to make your Pi into whatever you want it to be The Raspberry Pi was created by the UK Non profit Raspberry Pi Foundation to help get kids interested in programming Affordable portable and utterly adorable the Pi exceeded all expectations introducing millions of people to programming since its creation The Raspberry Pi User Guide 3rd Edition helps you and your Pi get acquainted with clear instruction in easy to understand language Install software configure and connect your Raspberry Pi to other devices Master basic Linux System Admin to better understand nomenclature and conventions Write basic productivity and multimedia programs in Scratch and Python Extend capabilities with add ons like Gertboard Arduino and more The Raspberry Pi has become a full fledged phenomenon popular with tinkerers hackers experimenters and inventors If you want to get started but aren't sure where to begin Raspberry Pi User Guide 3rd Edition contains everything you need

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Science and Technology Annual Reference Review, 1989 H. Robert Malinowsky,1989 **Annual Department of Defense Bibliography of Logistics Studies and Related Documents** United States. Defense Logistics Studies Information Exchange,1971

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