

TinkrPostr

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 | 61.8 | 61.8 |
| 13 | 0.0660 | 0.0040 | 84.5 | 84.5 |
| 14 | 0.0579 | 0.0029 | 115.0 | 115.0 |
| 15 | 0.0500 | 0.0021 | 158.5 | 158.5 |
| 16 | 0.0441 | 0.0015 | 219.0 | 219.0 |
| 17 | 0.0390 | 0.0011 | 300.0 | 300.0 |
| 18 | 0.0349 | 0.0008 | 403.0 | 403.0 |
| 19 | 0.0315 | 0.0006 | 539.0 | 539.0 |
| 20 | 0.0281 | 0.0004 | 724.0 | 724.0 |
| 21 | 0.0250 | 0.0003 | 959.0 | 959.0 |
| 22 | 0.0226 | 0.0002 | 1286.0 | 1286.0 |
| 23 | 0.0201 | 0.0001 | 1714.0 | 1714.0 |
| 24 | 0.0179 | 0.0001 | 2279.0 | 2279.0 |
| 25 | 0.0160 | 0.0000 | 3025.0 | 3025.0 |
| 26 | 0.0143 | 0.0000 | 4001.0 | 4001.0 |
| 27 | 0.0128 | 0.0000 | 5347.0 | 5347.0 |
| 28 | 0.0115 | 0.0000 | 7118.0 | 7118.0 |
| 29 | 0.0104 | 0.0000 | 9442.0 | 9442.0 |
| 30 | 0.0093 | 0.0000 | 12580.0 | 12580.0 |
| 31 | 0.0083 | 0.0000 | 16770.0 | 16770.0 |
| 32 | 0.0074 | 0.0000 | 22440.0 | 22440.0 |
| 33 | 0.0066 | 0.0000 | 30000.0 | 30000.0 |
| 34 | 0.0059 | 0.0000 | 40000.0 | 40000.0 |
| 35 | 0.0053 | 0.0000 | 53000.0 | 53000.0 |
| 36 | 0.0047 | 0.0000 | 7040.0 | 7040.0 |
| 37 | 0.0042 | 0.0000 | 9380.0 | 9380.0 |
| 38 | 0.0037 | 0.0000 | 12580.0 | 12580.0 |
| 39 | 0.0033 | 0.0000 | 16770.0 | 16770.0 |
| 40 | 0.0029 | 0.0000 | 22440.0 | 22440.0 |
| 41 | 0.0026 | 0.0000 | 30000.0 | 30000.0 |
| 42 | 0.0023 | 0.0000 | 40000.0 | 40000.0 |
| 43 | 0.0020 | 0.0000 | 53000.0 | 53000.0 |
| 44 | 0.0018 | 0.0000 | 7040.0 | 7040.0 |
| 45 | 0.0016 | 0.0000 | 9380.0 | 9380.0 |
| 46 | 0.0014 | 0.0000 | 12580.0 | 12580.0 |
| 47 | 0.0012 | 0.0000 | 16770.0 | 16770.0 |
| 48 | 0.0011 | 0.0000 | 22440.0 | 22440.0 |
| 49 | 0.0009 | 0.0000 | 30000.0 | 30000.0 |
| 50 | 0.0008 | 0.0000 | 40000.0 | 40000.0 |

Other Stuff

| Checklist for the Hobbyist | References |
|--|--|
| 1. Safety: Always wear safety glasses. Never work on live circuits. Always disconnect power before working on a circuit. | 1. Ohm's Law: $V = I \times R$ |
| 2. Power: Always use the correct power rating for components. Never exceed the rated power of a component. | 2. Power: $P = V \times I$ |
| 3. Voltage: Always use the correct voltage for components. Never exceed the rated voltage of a component. | 3. Voltage: $V = P / I$ |
| 4. Current: Always use the correct current for components. Never exceed the rated current of a component. | 4. Current: $I = P / V$ |
| 5. Resistance: Always use the correct resistance for components. Never exceed the rated resistance of a component. | 5. Resistance: $R = V / I$ |
| 6. Capacitance: Always use the correct capacitance for components. Never exceed the rated capacitance of a component. | 6. Capacitance: $C = Q / V$ |
| 7. Inductance: Always use the correct inductance for components. Never exceed the rated inductance of a component. | 7. Inductance: $L = \Phi / I$ |
| 8. Frequency: Always use the correct frequency for components. Never exceed the rated frequency of a component. | 8. Frequency: $f = 1 / T$ |
| 9. Temperature: Always use the correct temperature for components. Never exceed the rated temperature of a component. | 9. Temperature: $T = P / (h \times A)$ |
| 10. Humidity: Always use the correct humidity for components. Never exceed the rated humidity of a component. | 10. Humidity: $H = (m / M) \times 100$ |

Joseph Picafort

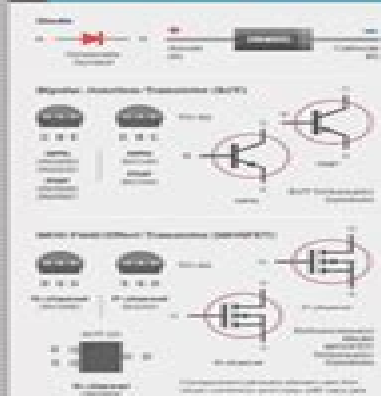
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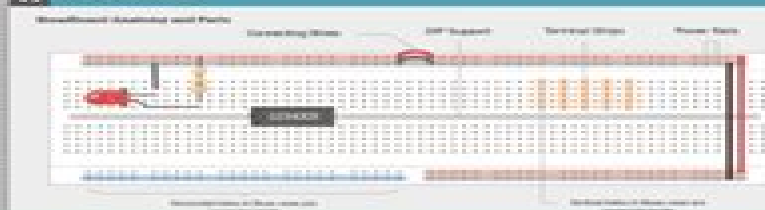
Resistor Color Coding

| Band | Color | Value | Multiplier | Value |
|------|--------|-------|------------|------------|
| 1 | Black | 0 | 1 | 0 |
| 2 | Brown | 1 | 10 | 10 |
| 3 | Red | 2 | 100 | 200 |
| 4 | Orange | 3 | 1000 | 3000 |
| 5 | Yellow | 4 | 10000 | 40000 |
| 6 | Green | 5 | 100000 | 500000 |
| 7 | Blue | 6 | 1000000 | 6000000 |
| 8 | Violet | 7 | 10000000 | 70000000 |
| 9 | Grey | 8 | 100000000 | 800000000 |
| 10 | White | 9 | 1000000000 | 9000000000 |

Diodes and Transistors



The Breadboard



Capacitor Coding

| Capacitor Coding | 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) |
|--------|-----------------|-------------------|
| Red | 620-630 | 20 |
| Yellow | 580-590 | 20 |
| Green | 520-530 | 20 |
| Blue | 470-480 | 20 |
| Violet | 400-410 | 20 |

Surface Mount Devices (SMDs)

| SMD Resistor Markings | 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 |

Electrical Units

| Quantity | Symbol | Unit | Quantity | Symbol | Unit |
|----------|--------|-----------|-------------|--------|-----------------|
| Current | I | Amps | Resistance | R | Ohms |
| Voltage | V | Volts | Capacitance | C | Farads |
| Power | P | Watts | Inductance | L | Henrys |
| Energy | E | Joules | Frequency | f | Hertz |
| Time | t | Seconds | Temperature | T | Degrees Celsius |
| Mass | m | Kilograms | Pressure | P | Pascals |

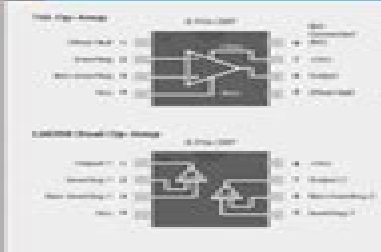
Metric Prefixes

| Prefix | Symbol | Value | Value (in scientific notation) |
|--------|--------|-----------------------------------|--------------------------------|
| Kilo | k | 1000 | 1.000 x 10 ³ |
| Mega | M | 1,000,000 | 1.000 x 10 ⁶ |
| Giga | G | 1,000,000,000 | 1.000 x 10 ⁹ |
| Tera | T | 1,000,000,000,000 | 1.000 x 10 ¹² |
| Peta | P | 1,000,000,000,000,000 | 1.000 x 10 ¹⁵ |
| Exa | E | 1,000,000,000,000,000,000 | 1.000 x 10 ¹⁸ |
| Zetta | Z | 1,000,000,000,000,000,000,000 | 1.000 x 10 ²¹ |
| Yotta | Y | 1,000,000,000,000,000,000,000,000 | 1.000 x 10 ²⁴ |

Regulator



Op-Amp



555 IC



Make it possible for



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junior token each player places their token on the start space randomize all of the tiles and place them facedown to the side
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