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ELECTRONICS CHEAT SHEET POSTER

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

Ohm's Law



American Wire Gauge

AWG	Diameter (in)	Area (in²)	Resistance (ohm/1000ft)	Resistance (ohm/1000m)
1	0.4433	0.2081	0.124	0.00156
2	0.3956	0.1581	0.159	0.00204
3	0.3576	0.1257	0.201	0.00258
4	0.3249	0.1013	0.248	0.00315
5	0.2957	0.0806	0.308	0.00392
6	0.2695	0.0642	0.385	0.00492
7	0.2449	0.0509	0.483	0.00616
8	0.2238	0.0403	0.608	0.00775
9	0.2043	0.0320	0.763	0.00974
10	0.1870	0.0257	0.958	0.01228
11	0.1709	0.0207	1.20	0.0153
12	0.1562	0.0166	1.50	0.0191
13	0.1433	0.0133	1.88	0.0239
14	0.1312	0.0107	2.37	0.0300
15	0.1200	0.0084	2.98	0.0377
16	0.1097	0.0066	3.75	0.0476
17	0.1003	0.0051	4.71	0.0598
18	0.0919	0.0039	5.91	0.0750
19	0.0845	0.0030	7.43	0.0944
20	0.0779	0.0023	9.30	0.1187
21	0.0718	0.0018	11.7	0.1487
22	0.0660	0.0014	14.8	0.1877
23	0.0605	0.0011	18.8	0.2377
24	0.0553	0.0008	23.8	0.3007
25	0.0503	0.0006	30.1	0.3817
26	0.0456	0.0004	38.5	0.4877
27	0.0411	0.0003	49.0	0.6197
28	0.0368	0.0002	62.1	0.7877
29	0.0328	0.0001	78.7	0.9997
30	0.0291	0.0001	99.5	1.2657
31	0.0256	0.0000	126.0	1.6057
32	0.0224	0.0000	159.0	2.0257
33	0.0194	0.0000	201.0	2.5557
34	0.0166	0.0000	254.0	3.2357
35	0.0140	0.0000	321.0	4.0957
36	0.0117	0.0000	405.0	5.1457
37	0.0097	0.0000	511.0	6.4957
38	0.0080	0.0000	642.0	8.2157
39	0.0066	0.0000	811.0	10.3557
40	0.0054	0.0000	1020.0	12.9557

Other Stuff

Character to the Character	Reference
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
A	A
B	B
C	C
D	D
E	E
F	F
G	G
H	H
I	I
J	J
K	K
L	L
M	M
N	N
O	O
P	P
Q	Q
R	R
S	S
T	T
U	U
V	V
W	W
X	X
Y	Y
Z	Z
a	a
b	b
c	c
d	d
e	e
f	f
g	g
h	h
i	i
j	j
k	k
l	l
m	m
n	n
o	o
p	p
q	q
r	r
s	s
t	t
u	u
v	v
w	w
x	x
y	y
z	z

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

Capacitor Coding

Capacitor	Value	Multiplier	Decimals	Value
100	100	1	0	100
101	100	10	1	1000
102	100	100	2	10000
103	100	1000	3	100000
104	100	10000	4	1000000
105	100	100000	5	10000000
106	100	1000000	6	100000000
107	100	10000000	7	1000000000
108	100	100000000	8	10000000000
109	100	1000000000	9	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	Multiplier	Decimals	Value
100	100	1	0	100
101	100	10	1	1000
102	100	100	2	10000
103	100	1000	3	100000
104	100	10000	4	1000000
105	100	100000	5	10000000
106	100	1000000	6	100000000
107	100	10000000	7	1000000000
108	100	100000000	8	10000000000
109	100	1000000000	9	100000000000

Electrical Units

Quantity	Symbol	Unit	Quantity	Symbol	Unit
Current	I	Amperes	Resistance	R	Ohms
Voltage	V	Volts	Capacitance	C	Farads
Power	P	Watts	Inductance	L	Henries
Energy	E	Joules	Frequency	f	Hertz
Time	t	Seconds	Wavelength	λ	Meters
Temperature	T	Degrees Celsius	Area	A	Square Meters

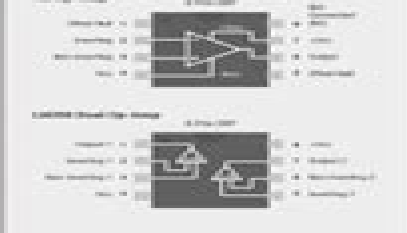
Metric Prefixes

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

Regulator



Op-Amp



555 IC



Electronics Reference Guide

John A. Camara



Electronics Reference Guide:

Reviewing **Electronics Reference Guide**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Electronics Reference Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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