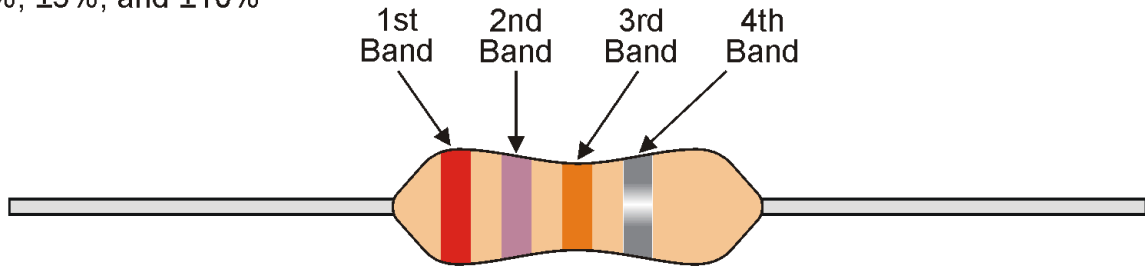


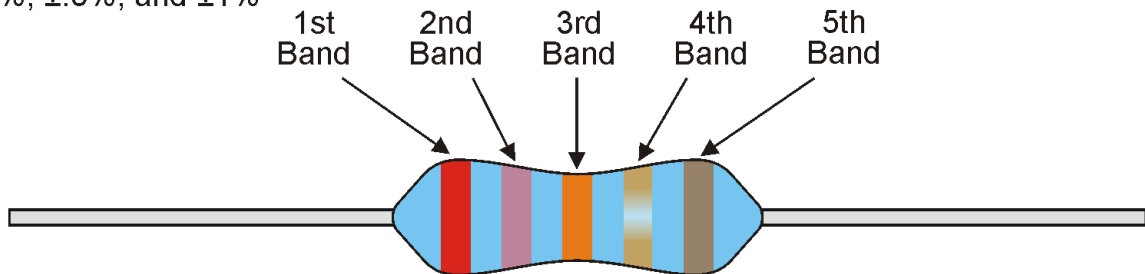
# Standard EIA Color Code Table

## 4-Band: $\pm 2\%$ , $\pm 5\%$ , and $\pm 10\%$



Color	1st Band (1st digit)	2nd Band (2nd digit)	3rd Band (multiplier)	4th Band (tolerance)
Black (BLK)	0	0	$10^0$	
Brown (BRN)	1	1	$10^1$	
Red	2	2	$10^2$	$\pm 2\%$
Orange (ORG)	3	3	$10^3$	
Yellow (YEL)	4	4	$10^4$	
Green (GRN)	5	5	$10^5$	
Blue (BLU)	6	6	$10^6$	
Violet (VIO)	7	7	$10^7$	
Gray (GRY)	8	8	$10^8$	
White (WHT)	9	9	$10^9$	
Gold			$10^{-1}$	$\pm 5\%$
Silver			$10^{-2}$	$\pm 10$

## 5-Band: $\pm 1\%$ , $\pm 5\%$ , and $\pm 1\%$



Color	1st Band (1st digit)	2nd Band (2nd digit)	3rd Band (3rd digit)	4th Band (multiplier)	5th Band (tolerance)
Black (BLK)	0	0	0	$10^0$	
Brown (BRN)	1	1	1	$10^1$	$\pm 1\%$
Red	2	2	2	$10^2$	
Orange (ORG)	3	3	3	$10^3$	
Yellow (YEL)	4	4	4	$10^4$	
Green (GRN)	5	5	5	$10^5$	$\pm 5\%$
Blue (BLU)	6	6	6	$10^6$	$\pm 25\%$
Violet (VIO)	7	7	7	$10^7$	$\pm 10$
Gray (GRY)	8	8	8	$10^8$	
White (WHT)	9	9	9	$10^9$	
Gold				$10^{-1}$	

# Conversion Values

## EIA CODE FOR VALUES (for capacitors)

EIA Code	Micro-Farad (µF)	Nano-Farad (nF)	Pico-Farad
010	.000001	.001	1
100	.00001	.01	10
101	.0001	.1	100
102	.001	1.0	1,000
103	.01	10	10,000
104	.1	100	100,000
105	1.0	1000	1,000,000
106	10	10000	10,000,000

## MILLIMETERS TO INCHES

mm	inches
.1	.0039
.2	.0079
.3	.0118
.4	.0157
.5	.0197
.6	.0236
.7	.0276
.8	.0315
.9	.0354
1	.0394
2	.0787
3	.1181
4	.1575
5	.1969
6	.2362
7	.2756
8	.3150
9	.3543

mm	inches
10	.3937
11	.4331
12	.4724
13	.5118
14	.5512
15	.5906
16	.6299
17	.6693
18	.7087
19	.7480
20	.7874
21	.8268
22	.8661
23	.9055
24	.9449
25	.9843
26	1.0236
27	1.0630

mm	inches
28	1.1024
29	1.1417
30	1.1811
31	1.2205
32	1.2598
33	1.2992
34	1.3386
35	1.3780
36	1.4173
37	1.4567
38	1.4961
39	1.5354
40	1.5748
41	1.6142
42	1.6535
43	1.6929
44	1.7323
45	1.7717

mm	inches
46	1.8110
47	1.8504
48	1.8898
49	1.9291
50	1.9685
51	2.0079
52	2.0472
53	2.0866
54	2.1260
55	2.1654
56	2.2047
57	2.2441
58	2.2835
59	2.3228
60	2.3622
61	2.4016
62	2.4409
63	2.4803

mm	inches
64	2.5197
65	2.5591
66	2.5984
67	2.6378
68	2.6772
69	2.7165
70	2.7559
71	2.7953
72	2.8346
73	2.8740
74	2.9134
75	2.9528
76	2.9921
77	3.0315
78	3.0709
79	3.1102
80	3.1496
81	3.1890

mm	inches
82	3.2283
83	3.2677
84	3.3071
85	3.3465
86	3.3858
87	3.4252
88	3.4646
89	3.5039
90	3.5433
91	3.5827
92	3.6220
93	3.6614
94	3.7008
95	3.7402
96	3.7795
97	3.8189
98	3.8583
99	3.8976

## FRACTIONAL INCHES TO DECIMALS TO MILLIMETERS

Fractions	Decimals	mm
1/64	0.015625	0.397
1/32	0.03125	0.794
3/64	0.046875	1.191
1/16	0.0625	1.588
5/64	0.078125	1.984
3/32	0.09375	2.381
7/64	0.109375	2.778
1/8	0.1250	3.175
9/64	0.140625	3.572
5/32	0.15625	3.969
11/64	0.171875	4.366
3/16	0.1875	4.763
13/64	0.203125	5.159
7/32	0.21875	5.556
15/64	0.234375	5.953
1/4	0.2500	6.350

Fractions	Decimals	mm
17/64	0.265625	6.747
9/32	0.28125	7.144
19/64	0.296875	7.541
5/16	0.3125	7.938
21/64	0.328125	8.334
11/32	0.34375	8.731
23/64	0.359375	9.128
3/8	0.3750	9.525
25/64	0.390625	9.922
13/32	0.40625	10.319
27/64	0.421875	10.716
7/16	0.4375	11.113
29/64	0.453125	11.509
15/32	0.46875	11.906
31/64	0.484375	12.303
1/2	0.5000	12.700

Fractions	Decimals	mm
33/64	0.515625	13.097
17/32	0.53125	13.494
35/64	0.546875	13.891
9/16	0.5625	14.288
37/64	0.578125	14.684
19/32	0.59375	15.081
39/64	0.609375	15.478
5/8	0.6250	15.875
41/64	0.640625	16.272
21/32	0.65625	16.669
43/64	0.671875	17.066
11/16	0.6875	17.463
45/64	0.703125	17.859
23/32	0.71875	18.256
47/64	0.734375	18.653
3/4	0.7500	19.050

Fractions	Decimals	mm
49/64	0.765625	19.447
25/32	0.78125	19.844
51/64	0.796875	20.241
13/16	0.8125	20.638
53/64	0.828125	21.034
27/32	0.84375	21.431
55/64	0.859375	21.828
7/8	0.8750	22.225
57/64	0.890625	22.622
29/32	0.90625	23.019
59/64	0.921875	23.416
15/16	0.9375	23.813
61/64	0.953125	24.209
31/32	0.96875	24.606
63/64	0.984375	25.003
1	1.000	25.400