



# Standard Resistance Values

.1% .25% .5%	1%	.1% .25% .5%	1%	.1% .25% .5%	1%	.1% .25% .5%	1%	.1% .25% .5%	1%	.1% .25% .5%	1%	.1% .25% .5%	1%	2% 5%	10%
10.0	10.0	14.9		22.1	22.1	32.8		48.7	48.7	72.3		10	10		
10.1		15.0	15.0	22.3		33.2	33.2	49.3		73.2	73.2	11			
10.2	10.2	15.2		22.6	22.6	33.6		49.9	49.9	74.1		12	12		
10.4		15.4	15.4	22.9		34.0	34.0	50.5		75.0	75.0	13			
10.5	10.5	15.6		23.2	23.2	34.4		51.1	51.1	75.9		15	15		
10.6		15.8	15.8	23.4		34.8	34.8	51.7		76.8	76.8	16			
10.7	10.7	16.0		23.7	23.7	35.2		52.3	52.3	77.7		18	18		
10.9		16.2	16.2	24.0		35.7	35.7	53.0		78.7	78.7	20			
11.0	11.0	16.4		24.3	24.3	36.1		53.6	53.6	79.6		22	22		
11.1		16.5	16.5	24.6		36.5	36.5	54.2		80.6	80.6	24			
11.3	11.3	16.7		24.9	24.9	37.0		54.9	54.9	81.6		27	27		
11.4		16.9	16.9	25.2		37.4	37.4	55.6		82.5	82.5	30			
11.5	11.5	17.2		25.5	25.5	37.9		56.2	56.2	83.5		33	33		
11.7		17.4	17.4	25.8		38.3	38.3	56.9		84.5	84.5	36			
11.8	11.8	17.6		26.1	26.1	38.8		57.6	57.6	85.6		39	39		
12.0		17.8	17.8	26.4		39.2	39.2	58.3		86.6	86.6	43			
12.1	12.1	18.0		26.7	26.7	39.7		59.0	59.0	87.6		47	47		
12.3		18.2	18.2	27.1		40.2	40.2	59.7		88.7	88.7	51			
12.4	12.4	18.4		27.4	27.4	40.7		60.4	60.4	89.8		56	56		
12.6		18.7	18.7	27.7		41.2	41.2	61.2		90.9	90.9	62			
12.7	12.7	18.9		28.0	28.0	41.7		61.9	61.9	92.0		68	68		
12.9		19.1	19.1	28.4		42.2	42.2	62.6		93.1	93.1	75			
13.0	13.0	19.3		28.7	28.7	42.7		63.4	63.4	94.2		82	82		
13.2		19.6	19.6	29.1		43.2	43.2	64.2		95.3	95.3	91			
13.3	13.3	19.8		29.4	29.4	43.7		64.9	64.9	96.5					
13.5		20.0	20.0	29.8		44.2	44.2	65.7		97.6	97.6				
13.7	13.7	20.3		30.1	30.1	44.8		66.5	66.5	98.8					
13.8		20.5	20.5	30.5		45.3	45.3	67.3							
14.0	14.0	20.8		30.9	30.9	45.9		68.1	68.1						
14.2		21.0	21.0	31.2		46.4	46.4	69.0							
14.3	14.3	21.3		31.6	31.6	47.0		69.8	69.8						
14.5		21.5	21.5	32.0		47.5	47.5	70.6							
14.7	14.7	21.8		32.4	32.4	48.1		71.5	71.5						

Standard resistance values are obtained from the decade table by multiplying by powers of 10. As an example, 13.3 can represent 13.3 ohms, 133 ohms, 1.33K, 13.3K, 133K, 1.33 megohms.



# EIA Capacitance Code & General Specifications

## EIA Capacitance Code: Micro-Farad (μF), Pico-Farad (pF) Nano-Farad (nF)

EIA CODE	(MF) MICRO-FARAD	(PF) PICO-FARAD	(NF) NANO-FARAD
1R5		1.5	.0015
2R2		2.2	.0022
3R3		3.3	.0033
4R7		4.7	.0047
6R8		6.8	.0068
100		10	.01
150		15	.015
220		22	.022
250		25	.025
330		33	.033
390		39	.039
470		47	.047
500		50	.050
560		56	.056
680		68	.068
750		75	.075
820		82	.082
101	.00010	100	.1
121	.00012	120	.12
151	.00015	150	.15
181	.00018	180	.18
201	.00020	200	.2
221	.00022	220	.22
251	.00025	250	.25
271	.00027	270	.27
301	.00030	300	.3
331	.00033	330	.33

EIA CODE	(MF) MICRO-FARAD	(PF) PICO-FARAD	(NF) NANO-FARAD
391	.00039	390	.39
401	.00040	400	.4
471	.00047	470	.47
501	.00050	390	.5
561	.00056	560	.56
681	.00068	680	.68
751	.00075	750	.75
821	.00082	820	.82
102	.001	1000	1.0
122	.0012	1200	1.2
152	.0015	1500	1.5
202	.002	2000	2.0
222	.0022	2200	2.2
252	.0025	2500	2.5
272	.0027	2700	2.7
302	.003	3000	3.0
332	.0033	3300	3.3
392	.0039	3900	3.9
472	.0047	4700	4.7
562	.0056	5600	5.6
682	.0068	6800	6.8
822	.0082	8200	8.2
103	.01	10000	10.0
123	.012	12000	12.0
153	.015	15000	15.0
183	.018	18000	18.0
223	.022	22000	22.0

EIA CODE	(MF) MICRO-FARAD	(PF) PICO-FARAD	(NF) NANO-FARAD
273	.027	27000	27.0
333	.033	33000	33.0
393	.039	39000	39.0
473	.047	47000	47.0
563	.056	56000	56.0
683	.068	68000	68.0
823	.082	82000	82.0
104	.1	100000	100.0
124	.12		120.0
154	.15		150.0
184	.18		180.0
224	.22		220.0
274	.27		270.0
334	.33		330.0
394	.39		390.0
474	.47		470.0
564	.56		560.0
684	.68		680.0
824	.82		820.0
105	1.0		1000.0
125	1.2		
155	1.5		
205	2.0		
305	3.0		
405	4.0		
505	5.0		
106	10.0		

### Capacitance Tolerance Codes

Code	Tolerance	Code	Tolerance
A	±0.05 pF	M	±20%
B	±0.1 pF	N	±30%
C	±0.25 pF	P	-0~+100%
D	±0.5 pF	Q	-10~+30%
E	±0.5%	S	±22%
F	±1.0%	T	-10~+50%
G	±2.0%	U	-10~+75%
H	±2.5%	W	-10~+100%
J	±5.0%	Y	-20~+5%
K	±10%	Z	-20~+80%
L	±15%		

### DC Voltage Codes

Code	VDC	Code	VDC
0G	4.0	2Q	110
0L	5.5	2B	125
0J	6.3	2C	160
1A	10	2Z	180
1C	16	2D	200
1E	25	2P	220
1V	35	2E	250
1H	50	2F	315
1J	63	2V	350
1K	80	2G	400
2A	100	2W	450

### Temperature Conversion Centigrade to Fahrenheit

°C	°F	°C	°F
-80	-112	90	194
-55	-67	100	212
-45	-49	105	221
-40	-40	115	239
-35	-31	125	257
-30	-22	140	284
-20	-4	150	302
-10	14	175	347
0	32	190	374
20	68	200	392
25	77	220	428
45	113	250	482
65	149	275	527
70	158	300	572
80	176	400	752
85	185	500	932