

Common Resistor and Capacitor Values for Electronic Circuits

The following are the standard resistor values available in carbon film with a 2 or 5 percent tolerance. Values are in Ohms with K = 1,000 and M = 1,000,000.

1.0	10	100	1.0K	10K	100K	1.0M	10M
1.1	11	110	1.1K	11K	110K	1.1M	11M
1.2	12	120	1.2K	12K	120K	1.2M	12M
1.3	13	130	1.3K	13K	130K	1.3M	13M
1.5	15	150	1.5K	15K	150K	1.5M	15M
1.6	16	160	1.6K	16K	160K	1.6M	16M
1.8	18	180	1.8K	18K	180K	1.8M	18M
2.0	20	200	2.0K	20K	200K	2.0M	20M
2.2	22	220	2.2K	22K	220K	2.2M	22M
2.4	24	240	2.4K	24K	240K	2.4M	
2.7	27	270	2.7K	27K	270K	2.7M	
3.0	30	300	3.0K	30K	300K	3.0M	
3.3	33	330	3.3K	33K	330K	3.3M	
3.6	36	360	3.6K	36K	360K	3.6M	
3.9	39	390	3.9K	39K	390K	3.9M	
4.3	43	430	4.3K	43K	430K	4.3M	
4.7	47	470	4.7K	47K	470K	4.7M	
5.1	51	510	5.1K	51K	510K	5.1M	
5.6	56	560	5.6K	56K	560K	5.6M	
6.2	62	620	6.2K	62K	620K	6.2M	
6.8	68	680	6.8K	68K	680K	6.8M	
7.5	75	750	7.5K	75K	750K	7.5M	
8.2	82	820	8.2K	82K	820K	8.2M	
9.1	91	910	9.1K	91K	910K	9.1M	

The following are standard capacitor values. Values below 1 uF are generally available with a 5 or 10 percent tolerance. Values over 1 uF are generally available with a 10 or 20 percent tolerance. Values are in Farads with p = pico, n = nano, u = micro, and m = milli.

	10p	100p	1.0n	10n	100n	1.0u	10u	100u	1.0m	10m
	12p	120p	1.2n	12n	120n	1.2u				
	15p	150p	1.5n	15n	150n	1.5u	15u	150u	1.5m	15m
	18p	180p	1.8n	18n	180n	1.8u				
2.2p	22p	220p	2.2n	22n	220n	2.2u	22u	220u	2.2m	22m
	27p	270p	2.7n	27n	270n	2.7u				
3.3p	33p	330p	3.3n	33n	330n	3.3u	33u	330u	3.3m	33m
	39p	390p	3.9n	39n	390n	3.9u				
4.7p	47p	470p	4.7n	47n	470n	4.7u	47u	470u	4.7m	47m
	56p	560p	5.6n	56n	560n	5.6u				
6.8p	68p	680p	6.8n	68n	680n	6.8u	68u	680u	6.8m	68m
	82p	820p	8.2n	82n	820n	8.2u				