



Resistance values of fixed resistors are arranged into standard resistor values conforming to the **E series** to simplify resistor manufacture, handling, purchase & electronic circuit design.

Standard Resistor Values: **E6, E12, E24, E48, E96 and E192**, where the digit following the letter E represents the number of values in a row for each decimal interval.

The different sets of standard resistor values are known by their E-series numbers: E6 has six resistance values in each decimal interval, E12 has twelve, E24 has twenty-four and so forth.

Table of all nominal resistance values of resistors, which conform to **E24 series**.

E24	Nominal values of resistances							
1.0	0.01 Ω	0.1 Ω	1 Ω	10 Ω	100 Ω	1 kΩ	10 kΩ	100 kΩ
1.1	0.011 Ω	0.11 Ω	1.1 Ω	11 Ω	110 Ω	1.1 kΩ	11 kΩ	
1.2	0.012 Ω	0.12 Ω	1.2 Ω	12 Ω	120 Ω	1.2 kΩ	12 kΩ	
1.3	0.013 Ω	0.13 Ω	1.3 Ω	13 Ω	130 Ω	1.3 kΩ	13 kΩ	
1.5	0.015 Ω	0.15 Ω	1.5 Ω	15 Ω	150 Ω	1.5 kΩ	15 kΩ	
1.6	0.016 Ω	0.16 Ω	1.6 Ω	16 Ω	160 Ω	1.6 kΩ	16 kΩ	
1.8	0.018 Ω	0.18 Ω	1.8 Ω	18 Ω	180 Ω	1.8 kΩ	18 kΩ	
2.0	0.02 Ω	0.2 Ω	2.0 Ω	20 Ω	200 Ω	2.0 kΩ	20 kΩ	
2.2	0.022 Ω	0.22 Ω	2.2 Ω	22 Ω	220 Ω	2.2 kΩ	22 kΩ	
2.4	0.024 Ω	0.24 Ω	2.4 Ω	24 Ω	240 Ω	2.4 kΩ	24 kΩ	
2.7	0.027 Ω	0.27 Ω	2.7 Ω	27 Ω	270 Ω	2.7 kΩ	27 kΩ	
3.0	0.03 Ω	0.3 Ω	3.0 Ω	30 Ω	300 Ω	3.0 kΩ	30 kΩ	
3.3	0.033 Ω	0.33 Ω	3.3 Ω	33 Ω	330 Ω	3.3 kΩ	33 kΩ	
3.6	0.036 Ω	0.36 Ω	3.6 Ω	36 Ω	360 Ω	3.6 kΩ	36 kΩ	
3.9	0.039 Ω	0.39 Ω	3.9 Ω	39 Ω	390 Ω	3.9 kΩ	39 kΩ	
4.3	0.043 Ω	0.43 Ω	4.3 Ω	43 Ω	430 Ω	4.3 kΩ	43 kΩ	
4.7	0.047 Ω	0.47 Ω	4.7 Ω	47 Ω	470 Ω	4.7 kΩ	47 kΩ	
5.1	0.051 Ω	0.51 Ω	5.1 Ω	51 Ω	510 Ω	5.1 kΩ	51 kΩ	
5.6	0.056 Ω	0.56 Ω	5.6 Ω	56 Ω	560 Ω	5.6 kΩ	56 kΩ	
6.2	0.062 Ω	0.62 Ω	6.2 Ω	62 Ω	620 Ω	6.2 kΩ	62 kΩ	
6.8	0.068 Ω	0.68 Ω	6.8 Ω	68 Ω	680 Ω	6.8 kΩ	68 kΩ	
7.5	0.075 Ω	0.75 Ω	7.5 Ω	75 Ω	750 Ω	7.5 kΩ	75 kΩ	
8.2	0.082 Ω	0.82 Ω	8.2 Ω	82 Ω	820 Ω	8.2 kΩ	82 kΩ	
9.1	0.091 Ω	0.91 Ω	9.1 Ω	91 Ω	910 Ω	9.1 kΩ	91 kΩ	

The E series preferred or standard resistor value ranges are internationally accepted and have been adopted by international standards organizations.