

SMD Resistor Code Chart

1. 3-Digit Codes

Value (Ω)	Code	Example
0.1	R10	R10 = 0.1 Ω
0.22	R22	R22 = 0.22 Ω
0.47	R47	R47 = 0.47 Ω
1.0	1R0	1R0 = 1.0 Ω
2.2	2R2	2R2 = 2.2 Ω
4.7	4R7	4R7 = 4.7 Ω
10	100	100 = 10 Ω
22	220	220 = 22 Ω
47	470	470 = 47 Ω
100	101	101 = 100 Ω
220	221	221 = 220 Ω
470	471	471 = 470 Ω
1K	102	102 = 1k Ω
2.2K	222	222 = 2.2k Ω
4.7K	472	472 = 4.7k Ω
10K	103	103 = 10k Ω
22K	223	223 = 22k Ω
47K	473	473 = 47k Ω
100K	104	104 = 100k Ω

Value (Ω)	Code	Example
220K	224	224 = 220k Ω
470K	474	474 = 470k Ω
1M	105	105 = 1M Ω

2. 4-Digit Codes

Value (Ω)	Code	Example
0.1	R100	R100 = 0.1 Ω
0.22	R220	R220 = 0.22 Ω
0.47	R470	R470 = 0.47 Ω
1.0	1R00	1R00 = 1.0 Ω
2.2	2R20	2R20 = 2.2 Ω
4.7	4R70	4R70 = 4.7 Ω
10	10R0	10R0 = 10 Ω
22	22R0	22R0 = 22 Ω
47	47R0	47R0 = 47 Ω
100	1000	1000 = 100 Ω
220	2200	2200 = 220 Ω
470	4700	4700 = 470 Ω
1K	1001	1001 = 1k Ω
2.2K	2201	2201 = 2.2k Ω
4.7K	4701	4701 = 4.7k Ω
10K	1002	1002 = 10k Ω
22K	2202	2202 = 22k Ω
47K	4702	4702 = 47k Ω

Value (Ω)	Code	Example
100K	1003	1003 = 100k Ω
220K	2203	2203 = 220k Ω
470K	4703	4703 = 470k Ω
1M	1004	1004 = 1M Ω

3. Calculation Rules

3-Digit Code

- First two digits: Significant figures
- Last digit: Number of zeros to add
- Example: 472 = $47 \times 10^2 = 4.7\text{k}\Omega$

4-Digit Code

- First three digits: Significant figures
- Last digit: Number of zeros to add
- Example: 4701 = $470 \times 10^1 = 4.7\text{k}\Omega$

R Notation

- R represents decimal point
- Example: 4R7 = 4.7 Ω