# **Resistors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1%, 1/4 W Metal Oxide | | | | | |
| Cost $0.10 |  |  |  |  | Code R1 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9.1 | 105 | 806 | 1.00k | 4.22k | 16.5k | 53.6k | 316k | 1.00M |
| 10 | 107 | 845 | 1.02k | 4.99k | 16.9k | 56.2k | 332k | 1.33M |
| 10.5 | 110 | 866 | 1.13k | 5.11k | 17.4k | 59.0k | 340k | 1.5M |
| 10.7 | 150 | 909 | 1.21k | 5.62k | 17.8k | 61.9k | 357k | 2.2M |
| 14.3 | 158 | 931 | 1.27k | 5.76k | 18.2k | 63.4k | 365k |  |
| 14.7 | 174 | 951 | 1.30k | 5.81k | 18.7k | 68.1k | 402k |
| 16.5 | 180 | 976 | 1.37k | 5.90k | 20.0k | 69.8k | 432k |
| 19.1 | 205 | 806 | 1.43k | 6.04k | 20.5k | 73.2k | 487k |
| 20.0 | 210 | 845 | 1.50k | 6.19k | 21.5k | 75.0k | 499k |
| 21.0 | 215 | 866 | 1.54k | 6.65k | 22.1k | 76.8k | 523k |
| 24.9 | 220 | 909 | 1.58k | 6.81k | 22.6k | 80.6k | 536k |
| 27.4 | 237 | 931 | 1.62k | 6.98k | 23.2k | 82.5k | 619k |
| 28.7 | 243 | 951 | 1.65k | 7.50k | 24.0k | 90.9k | 649k |
| 29.4 | 249 | 976 | 1.69k | 7.68k | 24.3k | 95.3k | 768k |
| 30.1 | 255 |  | 1.78k | 8.06k | 24.9k | 100k | 787k |
| 34.8 | 261 | 1.82k | 8.45k | 25.5k | 105k | 825k |
| 36.5 | 280 | 1.91k | 9.09k | 26.1k | 109k | 316k |
| 40.2 | 294 | 2.00k | 9.53k | 26.7k | 110k | 332k |
| 41.2 | 324 | 2.05k | 9.76k | 27.4k | 121k | 340k |
| 47.0 | 332 | 2.15k | 10.0k | 28.7k | 127k | 357k |
| 47.5 | 340 | 2.21k | 10.5k | 30.1k | 133k | 365k |
| 48.7 | 357 | 2.32k | 10.7k | 30.9k | 140k | 402k |
| 49.9 | 392 | 2.43k | 11.0k | 33.2k | 158k | 432k |
| 51.1 | 402 | 2.55k | 11.3k | 34.8k | 160k | 487k |
| 57.6 | 432 | 2.60k | 11.5k | 36.0k | 162k | 499k |
| 59.0 | 464 | 2.67k | 11.8k | 36.5k | 165k | 523k |
| 63.0 | 475 | 2.7k | 12.0k | 37.0k | 178k | 536k |
| 64.9 | 487 | 2.74k | 12.1k | 37.4k | 182k | 619k |
| 68.1 | 499 | 2.87k | 12.4k | 38.3k | 187k | 649k |
| 71.5 | 511 | 2.94k | 12.7k | 40.2k | 210k | 768k |
| 73.2 | 549 | 3.01k | 13.0k | 41.2k | 220k | 787k |
| 75.0 | 562 | 3.24k | 13.7k | 43.2k | 221k | 825k |
| 76.8 | 590 | 3.32k | 14.3k | 46.4k | 226k |  |
| 82.5 | 619 | 3.65k | 14.7k | 47.5k | 274k |
| 95.3 | 665 | 3.92k | 15.0k | 49.9k | 294k |
| 100 | 768 | 4.02k | 16.2k | 52.3k | 301k |

# **Resistors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5%, 1/4 W Metal Oxide | | | | | |
| Cost $0.10 |  |  |  |  | Code R5 |

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

**Resistors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5%, 1/2 W Metal Oxide | | | | | |
| Cost $0.10 |  |  |  |  | Code R6 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.0 | 33 | 1.0k | 33k | 1.0M |
| 1.1 | 36 | 1.1k | 36k | 1.1M |
| 1.2 | 39 | 1.2k | 39k | 1.2M |
| 1.3 | 43 | 1.3k | 43k | 1.3M |
| 1.5 | 47 | 1.5k | 47k | 1.5M |
| 1.6 | 51 | 1.6k | 51k | 1.6M |
| 1.8 | 56 | 1.8k | 56k | 1.8M |
| 2.0 | 62 | 2.0k | 62k | 2.0M |
| 2.2 | 68 | 2.2k | 68k | 2.2M |
| 2.4 | 75 | 2.4k | 75k | 2.4M |
| 2.7 | 82 | 2.7k | 82k | 2.7M |
| 3.0 | 91 | 3.0k | 91k | 3.0M |
| 3.3 | 100 | 3.3k | 100k | 3.3M |
| 3.6 | 110 | 3.6k | 110k | 3.6M |
| 3.9 | 120 | 3.9k | 120k | 3.9M |
| 4.3 | 130 | 4.3k | 130k | 4.3M |
| 4.7 | 150 | 4.7k | 150k | 4.7M |
| 5.1 | 160 | 5.1k | 160k | 5.1M |
| 5.6 | 180 | 5.6k | 180k | 5.2M |
| 6.2 | 200 | 6.2k | 200k | 5.6M |
| 6.8 | 220 | 6.8k | 220k | 6.8M |
| 7.5 | 240 | 7.5k | 240k | 7.5M |
| 8.2 | 270 | 8.2k | 270k | 8.2M |
| 9.1 | 300 | 9.1k | 300k | 9.1M |
| 10 | 330 | 10k | 330k | 10M |
| 11 | 360 | 11k | 360k |  |
| 12 | 390 | 12k | 390k |
| 13 | 430 | 13k | 430k |
| 15 | 470 | 15k | 470k |
| 16 | 510 | 16k | 510k |
| 18 | 560 | 18k | 560k |
| 20 | 620 | 20k | 620k |
| 22 | 680 | 22k | 680k |
| 24 | 750 | 24k | 750k |
| 27 | 820 | 27k | 820k |
| 30 | 910 | 30k | 910k |

**Resistors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5%, 1 W Metal Oxide | | | | | |
| Cost $0.20 |  |  |  |  | Code R3 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 0.5 | 27 | 1.0k | 47k | 1.0M |
| 1.0 | 33 | 1.2k | 56k | 1.2M |
| 1.2 | 39 | 1.5k | 62k | 1.5M |
| 1.5 | 47 | 1.8k | 82k | 1.8M |
| 1.8 | 56 | 2.2k | 100k | 2.2M |
| 2.2 | 68 | 2.7k | 120k | 2.7M |
| 2.7 | 82 | 3.3k | 150k | 3.3M |
| 3.3 | 100 | 3.9k | 180k | 3.9M |
| 3.9 | 120 | 4.7k | 220k | 4.7M |
| 4.7 | 150 | 5.6k | 270k | 5.6M |
| 5.1 | 180 | 6.8k | 330k | 6.8M |
| 5.6 | 220 | 8.2k | 390k | 8.2M |
| 6.8 | 270 | 10k | 470k | 10M |
| 8.2 | 330 | 12k | 560k |  |
| 10 | 390 | 15k | 680k |
| 12 | 470 | 18k | 820k |
| 13 | 510 | 22k |  |
| 15 | 560 | 27k |
| 18 | 680 | 33k |
| 22 | 820 | 39k |

**Resistors**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5%, 2 W Metal Oxide | | | | | |
| Cost $0.25 |  |  |  |  | Code R2 |

|  |  |  |  |
| --- | --- | --- | --- |
| 1.0 | 56 | 1.0k | 100k |
| 2.0 | 75 | 1.2k | 220k |
| 3.0 | 100 | 4.7k | 470k |
| 3.9 | 200 | 8.2k | 1.0M |
| 5.1 | 330 | 10k |  |
| 10 | 560 | 15k |
| 33 |  | 56k |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5%, 5 W Metal Oxide | | | | | |
| Cost $0.50 |  |  |  |  | Code R4 |

|  |  |  |  |
| --- | --- | --- | --- |
| 0.1 | 8.2 | 75 | 1.0k |
| 0.22 | 10 | 100 | 2.0k |
| 0.27 | 20 | 150 | 5.0k |
| 0.47 | 22 | 200 | 10k |
| 1.0 | 33 | 330 | 20k |
| 2.0 | 47 | 500 | 1.0k |
| 5.0 | 50 | 820 |  |