

Carbon-film resistor-set 1/2 W (THT) 400pcs Item No.: 201711P003

Whether in the laboratory, in workshops, development offices or for hobby, leisure and education: with this high quality range of resistors you are always well equipped. Wired carbon film resistors (through-hole-mounting) are standard components in electronics and engineering and are indispensable in the practical handling of this matter. Included are 20 different default values. By series or parallel connection or combinations, any intermediate values can be formed. That is why this set is also ideally suited for educational purposes and is often used in educational institutions.



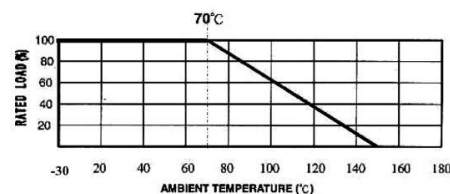
| No. | Resistance | Pcs. | No. | Resistance | Pcs. | No. | Resistance | Pcs. | No. | Resistance | Pcs. |
|-----|------------|------|-----|------------|------|-----|------------|------|-----|------------|------|
| 1 | 1 Ω | 20x | 6 | 220 Ω | 20x | 11 | 2.2k Ω | 20x | 16 | 47k Ω | 20x |
| 2 | 10 Ω | 20x | 7 | 330 Ω | 20x | 12 | 4.7k Ω | 20x | 17 | 100k Ω | 20x |
| 3 | 47 Ω | 20x | 8 | 470 Ω | 20x | 13 | 10k Ω | 20x | 18 | 220k Ω | 20x |
| 4 | 100 Ω | 20x | 9 | 1k Ω | 20x | 14 | 22k Ω | 20x | 19 | 470k Ω | 20x |
| 5 | 150 Ω | 20x | 10 | 1.5k Ω | 20x | 15 | 33k Ω | 20x | 20 | 1M Ω | 20x |

Technical data: Rated power: 0.5 W (Derating from $T_a=70^\circ\text{C}$) • Tolerance: 5% • Temp.-range: $-50 \dots 150^\circ\text{C}$ • Working voltage: 350 V • Dielectric withstanding/overload voltage: max. 700 V • Temp. Coefficient max $\pm 350 \text{ ppm}/^\circ\text{C}$ ($<100\text{k}\Omega$) / $0 \dots -700 \text{ ppm}/^\circ\text{C}$ ($100\text{k}\Omega \dots 1\text{M}\Omega$) • Solder ability: Dip the lead in to a solder bath having a Temperature of $260^\circ\text{C} \pm 5^\circ\text{C}$ up to $4 \pm 0.8\text{mm}$ from the body of the resistor and hold it for 5 ± 0.5 seconds then inspect.

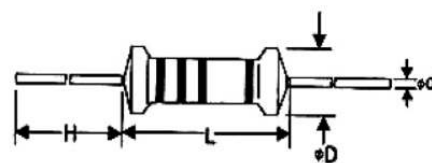
Refill packs available, content 100 pcs. per value:

| Part-No. | Resistance | Part-No. | Resistance |
|----------|------------|----------|------------|
| 22P107 | 1 Ω | 22P117 | 2.2k Ω |
| 22P108 | 10 Ω | 22P118 | 4.7k Ω |
| 22P109 | 47 Ω | 22P119 | 10k Ω |
| 22P110 | 100 Ω | 22P120 | 22k Ω |
| 22P111 | 150 Ω | 22P121 | 33k Ω |
| 22P112 | 220 Ω | 22P122 | 47k Ω |
| 22P113 | 330 Ω | 22P123 | 100k Ω |
| 22P114 | 470 Ω | 22P124 | 220k Ω |
| 22P115 | 1k Ω | 22P125 | 470k Ω |
| 22P116 | 1.5k Ω | 22P126 | 1M Ω |

Derating @ high temperature



Resistor dimensions



$$L = 9.0 \pm 0.5 \text{ mm} / D = 3.2 \pm 0.3 \text{ mm} / H = 26 \pm 2 \text{ mm} / d = 0.4 \text{ mm}$$