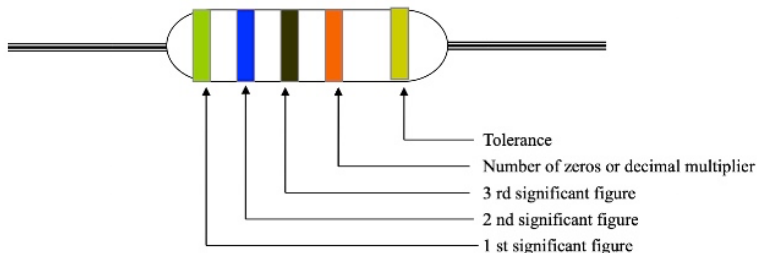


2000 pcs Metal Film Resistors Set 500 mW Part No. 23P130



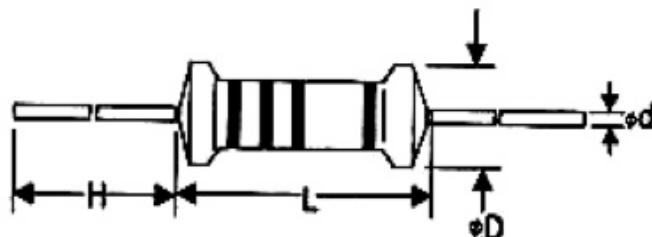
Resistor color code



Color refer

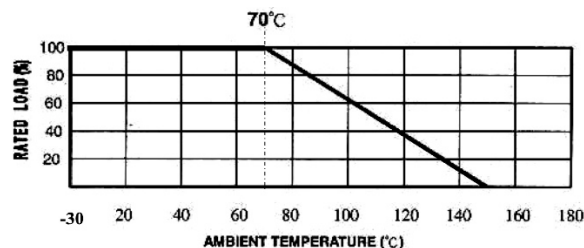
Color	1 st Band	2 nd Band	3 rd Band	4 th Band	Tolerance
Black	0	0	0	10^0	
Brown	1	1	1	10^1	$\pm 1.00 \%$
Red	2	2	2	10^2	
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	$\pm 0.50 \%$
Blue	6	6	6	10^6	$\pm 0.25 \%$
Violet	7	7	7	10^7	$\pm 0.10 \%$
Grey	8	8	8	10^8	
White	9	9	9	10^9	
Gold				10^{-1}	
Silver				10^{-2}	

Resistor dimensions



$L = 9.0 \pm 0.1 \text{ mm}$ / $D = 3.5 \pm 0.5 \text{ mm}$ / $H = 26 \pm 2 \text{ mm}$ / $d = 0.58 \text{ mm}$

Derating @ high temperature



Technical data: Rated power: 0.5 W (Derating from $T_a = 70^\circ\text{C}$) • Tolerance: 1% • Temp.-range: $-30 \dots 150^\circ\text{C}$ • Working voltage: 350 V • Dielectric withstanding/overload voltage: max. 700 V • Temp. Coefficient max $\pm 100 \text{ ppm}/^\circ\text{C}$ • 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. Content 100 pcs. per value: 1 Ω , 10 Ω , 47 Ω , 100 Ω , 150 Ω , 220 Ω , 330 Ω , 470 Ω , 1k Ω , 1.5k Ω , 2.2k Ω , 4.7k Ω , 10k Ω , 22k Ω , 33k Ω , 47k Ω , 100k Ω , 220k Ω , 470k Ω , 1M Ω • Bending tool • Vitrometer.

Substitute / Refill Packs are available:

Part No.	Resistor Value	Content
22P081	1, 10, 47, 100, 150, 220, 330, 470, 1k, 1.5k, 2.2k, 4.7k, 10k, 22k, 33k, 47k, 100k, 220k, 470k, 1M Ω	200 pcs. (10/each)
22P082	1, 10, 47, 100, 150, 220, 330, 470, 1k, 1.5k, 2.2k, 4.7k, 10k, 22k, 33k, 47k, 100k, 220k, 470k, 1M Ω	500 pcs. (25/each)
22P083	1, 10, 47, 100, 150, 220, 330, 470, 1k, 1.5k, 2.2k, 4.7k, 10k, 22k, 33k, 47k, 100k, 220k, 470k, 1M Ω	1000 pcs. (50/each)
22P084	1 Ω	100 pcs.
22P085	10 Ω	100 pcs.
22P086	47 Ω	100 pcs.
22P087	100 Ω	100 pcs.
22P088	150 Ω	100 pcs.
22P089	220 Ω	100 pcs.

Part No.	Resistor Value	Content
22P090	330 Ω	100 pcs.
22P091	470 Ω	100 pcs.
22P092	1 k Ω	100 pcs.
22P093	1.5 k Ω	100 pcs.
22P094	2.2 k Ω	100 pcs.
22P095	4.7 k Ω	100 pcs.
22P096	10 k Ω	100 pcs.
22P097	22 k Ω	100 pcs.
22P098	33 k Ω	100 pcs.
22P099	47 k Ω	100 pcs.
22P100	100 k Ω	100 pcs.
22P101	220 k Ω	100 pcs.
22P102	470 k Ω	100 pcs.
22P103	1 M Ω	100 pcs.