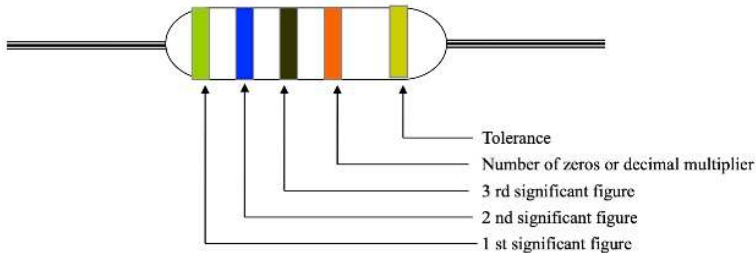


## 2000 pcs Metal Film Resistors Set 250 mW Part No. 22P129



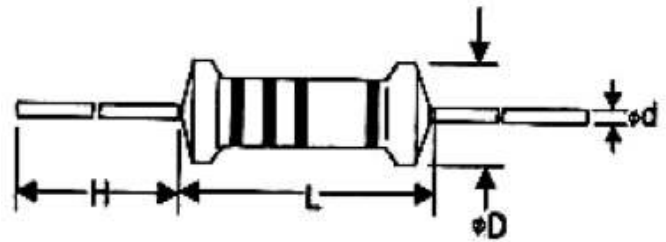
### Resistor color code



#### Color refer

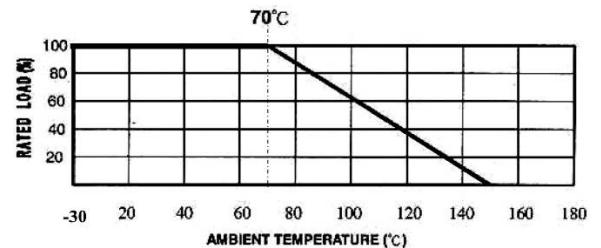
Color	1 st Band	2 nd Band	3 rd Band	4 th Band	Tolerance
Black	0	0	0	$10^0$	
Brown	1	1	1	$10^1$	±1.00 %
Red	2	2	2	$10^2$	
Orange	3	3	3	$10^3$	
Yellow	4	4	4	$10^4$	
Green	5	5	5	$10^5$	±0.50 %
Blue	6	6	6	$10^6$	±0.25 %
Violet	7	7	7	$10^7$	±0.10 %
Grey	8	8	8	$10^8$	
White	9	9	9	$10^9$	
Gold				$10^{-1}$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

### Resistor dimensions



$$L = 6.0 \pm 0.5 \text{ mm} / D = 2.3 \pm 0.3 \text{ mm} / H = 27 \pm 2 \text{ mm} / d = 0.48 \text{ mm}$$

### Derating @ high temperature



**Technical data:** Rated power: 0.25 W (Derating from  $T_a=70^\circ\text{C}$ ) • Tolerance: 1% • Temp.-range: -30 ... 150 °C • Working voltage: 250 V • Dielectric withstanding/overload voltage: max. 500 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  $5 \pm 0.5$  seconds then inspect. Content 100 pcs. per value: 1 $\Omega$ , 10 $\Omega$ , 47 $\Omega$ , 100 $\Omega$ , 150 $\Omega$ , 220 $\Omega$ , 330 $\Omega$ , 470 $\Omega$ , 1k $\Omega$ , 1.5k $\Omega$ , 2.2k $\Omega$ , 4.7k $\Omega$ , 10k $\Omega$ , 22k $\Omega$ , 33k $\Omega$ , 47k $\Omega$ , 100k $\Omega$ , 220k $\Omega$ , 470k $\Omega$ , 1M $\Omega$  • Bending tool • Vitrometer.

### Substitute / Refill Packs are available:

Part No.	Resistor Value	Content
22P035	1, 10, 47, 100, 150, 220, 330, 470, 1k, 1.5k, 2.2k, 4.7k, 10k, 22k, 33k, 47k, 100k, 220k, 470k, 1M $\Omega$	200 pcs. (10/each)
22P036	1, 10, 47, 100, 150, 220, 330, 470, 1k, 1.5k, 2.2k, 4.7k, 10k, 22k, 33k, 47k, 100k, 220k, 470k, 1M $\Omega$	500 pcs. (25/each)
22P037	1, 10, 47, 100, 150, 220, 330, 470, 1k, 1.5k, 2.2k, 4.7k, 10k, 22k, 33k, 47k, 100k, 220k, 470k, 1M $\Omega$	1000 pcs. (50/each)
22P038	1 $\Omega$	100 pcs.
22P039	10 $\Omega$	100 pcs.
22P040	47 $\Omega$	100 pcs.
22P041	100 $\Omega$	100 pcs.
22P042	150 $\Omega$	100 pcs.
22P043	220 $\Omega$	100 pcs.

Part No.	Resistor Value	Content
22P044	330 $\Omega$	100 pcs.
22P045	470 $\Omega$	100 pcs.
22P046	1 k $\Omega$	100 pcs.
22P047	1.5 k $\Omega$	100 pcs.
22P048	2.2 k $\Omega$	100 pcs.
22P049	4.7 k $\Omega$	100 pcs.
22P050	10 k $\Omega$	100 pcs.
22P051	22 k $\Omega$	100 pcs.
22P052	33 k $\Omega$	100 pcs.
22P053	47 k $\Omega$	100 pcs.
22P054	100 k $\Omega$	100 pcs.
22P055	220 k $\Omega$	100 pcs.
22P056	470 k $\Omega$	100 pcs.
22P057	1 M $\Omega$	100 pcs.