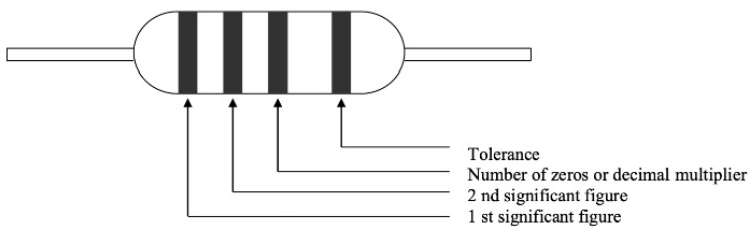


## 2000 pcs Carbon Film Resistors Set 500 mW Part No. 23P128



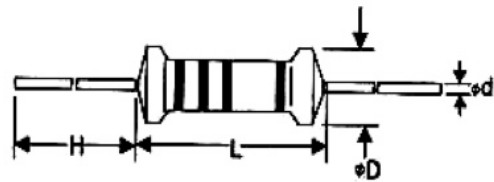
### Resistor color code



#### Color refer

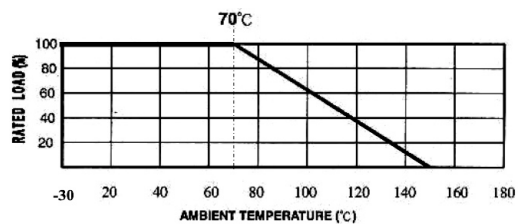
Color	1 st Band	2 nd Band	3 rd Band	4 th Band
Black	0	0	10 <sup>0</sup>	
Brown	1	1	10 <sup>1</sup>	
Red	2	2	10 <sup>2</sup>	±2.0%
Orange	3	3	10 <sup>3</sup>	
Yellow	4	4	10 <sup>4</sup>	
Green	5	5	10 <sup>5</sup>	
Blue	6	6	10 <sup>6</sup>	
Violet	7	7	10 <sup>7</sup>	
Grey	8	8	10 <sup>8</sup>	
White	9	9	10 <sup>9</sup>	
Gold			10 <sup>-1</sup>	±5.0%
Silver			10 <sup>-2</sup>	±10.0%

### Resistor dimensions



L = 9.0 ± 0.5 mm / D = 3.2 ± 0.3 mm / H = 26 ± 2 mm / d = 0.4 mm

### Derating @ high temperature



**Technical data:** Rated power: 0.5 W (Derating from Ta=70°C) • Tolerance: 5% • Temp.-range: -50 ... 150 °C • Working voltage: 350 V • Dielectric withstanding/overload voltage: max. 700 V • Temp. Coefficient max ±350 ppm/°C (<100kΩ) / 0... -700 ppm/°C (100kΩ...1MΩ) • Solder ability: Dip the lead in to a solder bath having a Temperature of 260 °C ± 5°C up to 4±0.8mm from the body of the resistor and hold it for 5± 0.5 seconds then inspect. Content 100 pcs. per value: 1Ω, 10Ω, 47Ω, 100Ω, 150Ω, 220Ω, 330Ω, 470Ω, 1kΩ, 1.5kΩ, 2.2kΩ, 4.7kΩ, 10kΩ, 22kΩ, 33kΩ, 47kΩ, 100kΩ, 220kΩ, 470kΩ, 1MΩ • Bending tool • Vitrometer.

### Substitute / Refill Packs are available:

Part No.	Resistor Value	Content
22P104	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)
22P105	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)
22P106	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)
22P107	1 Ω	100 pcs.
22P108	10 Ω	100 pcs.
22P109	47 Ω	100 pcs.
22P110	100 Ω	100 pcs.
22P111	150 Ω	100 pcs.
22P112	220 Ω	100 pcs.

Part No.	Resistor Value	Content
22P113	330 Ω	100 pcs.
22P114	470 Ω	100 pcs.
22P115	1 kΩ	100 pcs.
22P116	1.5 kΩ	100 pcs.
22P117	2.2 kΩ	100 pcs.
22P118	4.7 kΩ	100 pcs.
22P119	10 kΩ	100 pcs.
22P120	22 kΩ	100 pcs.
22P121	33 kΩ	100 pcs.
22P122	47 kΩ	100 pcs.
22P123	100 kΩ	100 pcs.
22P124	220 kΩ	100 pcs.
22P125	470 kΩ	100 pcs.
22P126	1 MΩ	100 pcs.