

How to Read Resistor Color Codes

6-Band $274 \times 10^0 \pm 2$ = 274 Ω \pm 2%, 250 ppm/K



Color	1st Digit	2nd Digit	3rd Digit	Multiplier	Tolerance	Temperature Coefficient
Black	0	0	0	1 Ω		250 ppm/K
Brown	1	1	1	10 Ω	\pm 1%	100 ppm/K
Red	2	2	2	100 Ω	\pm 2%	50 ppm/K
Orange	3	3	3	1k Ω		15 ppm/K
Yellow	4	4	4	10k Ω		25 ppm/K
Green	5	5	5	100k Ω	\pm 0.5%	20 ppm/K
Blue	6	6	6	1M Ω	\pm 0.25%	10 ppm/K
Violet	7	7	7		\pm 0.1%	5 ppm/K
Grey	8	8	8			1 ppm/K
White	9	9	9			
Gold				0.1 Ω	\pm 5%	
Silver				0.01 Ω	\pm 10%	

4-Band $12 \times 10^5 \pm 5\%$ = 1,200 k Ω \pm 5%

5-Band $100 \times 10^2 \pm 1\%$ = 10,000 Ω \pm 1%