

Resistance Value	1st Band	2nd Band	3rd Band	4th Band
1R0 (1 Ohm)	Brown	Black	Gold	
1R2 (1.2 ohm)	Brown	Red	Gold	
1R5 (1.5 ohm)	Brown	Green	Gold	
1R8 (1.8 ohm)	Brown	Grey	Gold	
2R2 (2.2 ohm)	Red	Red	Gold	
2R7 (2.7 ohm)	Red	Purple	Gold	
3R3 (3.3 ohm)	Orange	Orange	Gold	
3R9 (3.9 ohm)	Orange	White	Gold	
4R7 (4.7 ohm)	Yellow	Purple	Gold	
5R6 (5.6 ohm)	Green	Blue	Gold	
6R8 (6.8 ohm)	Blue	Grey	Gold	
8R2 (8.2 ohm)	Grey	Red	Gold	

Resistance Value	1st Band	2nd Band	3rd Band	4th Band
100R (100 ohm)	Brown	Black	Red	Gold
120R (120 ohm)	Brown	Red	Red	Gold
150R (150 ohm)	Brown	Green	Red	Gold
180R (180 ohm)	Brown	Grey	Red	Gold
220R (220 ohm)	Red	Red	Red	Gold
270R (270 ohm)	Red	Purple	Red	Gold
330R (330 ohm)	Orange	Orange	Red	Gold
390R (390 ohm)	Orange	White	Red	Gold
470R (470 ohm)	Yellow	Purple	Red	Gold
560R (560 ohm)	Green	Blue	Red	Gold
680R (680 ohm)	Blue	Grey	Red	Gold
820R (820 ohm)	Grey	Red	Red	Gold

Resistance Value	1st Band	2nd Band	3rd Band	4th Band
10K (10,000 ohm)	Brown	Black	Orange	Gold
12K (12,000 ohm)	Brown	Red	Orange	Gold
15K (15,000 ohm)	Brown	Green	Orange	Gold
18K (18,000 ohm)	Brown	Grey	Orange	Gold
22K (22,000 ohm)	Red	Red	Orange	Gold
27K (27,000 ohm)	Red	Purple	Orange	Gold
33K (33,000 ohm)	Orange	Orange	Orange	Gold
39K (39,000 ohm)	Orange	White	Orange	Gold
47K (47,000 ohm)	Yellow	Purple	Orange	Gold
56K (56,000 ohm)	Green	Blue	Orange	Gold
68K (68,000 ohm)	Blue	Grey	Orange	Gold
82K (82,000 ohm)	Grey	Red	Orange	Gold

Resistance Value	1st Band	2nd Band	3rd Band	4th Band
1M0 (1,000,000 ohm)	Brown	Black	Green	Gold
1M2 (1,200,000 ohm)	Brown	Red	Green	Gold
1M5 (1,500,000 ohm)	Brown	Green	Green	Gold
1M8 (1,800,000 ohm)	Brown	Grey	Green	Gold
2M2 (2,200,000 ohm)	Red	Red	Green	Gold
2M7 (2,700,000 ohm)	Red	Purple	Green	Gold
3M3 (3,300,000 ohm)	Orange	Orange	Green	Gold
3M9 (3,900,000 ohm)	Orange	White	Green	Gold
4M7 (4,700,000 ohm)	Yellow	Purple	Green	Gold
5M6 (5,600,000 ohm)	Green	Blue	Green	Gold
6M8 (6,800,000 ohm)	Blue	Grey	Green	Gold
8M2 (8,200,000 ohm)	Grey	Red	Green	Gold

10R (10 ohm)	Brown	Black	Gold	
12R (12 ohm)	Brown	Red	Gold	
15R (15 ohm)	Brown	Green	Gold	
18R (18 ohm)	Brown	Grey	Gold	
22R (22 ohm)	Red	Red	Gold	
27R (27 ohm)	Red	Purple	Gold	
33R (33 ohm)	Orange	Orange	Gold	
39R (39 ohm)	Orange	White	Gold	
47R (47 ohm)	Yellow	Purple	Gold	
56R (56 ohm)	Green	Blue	Gold	
68R (68 ohm)	Blue	Grey	Gold	
82R (82 ohm)	Grey	Red	Gold	

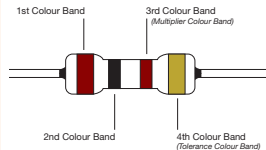
1K0 (1,000 ohm)	Brown	Black	Red	Gold
1K2 (1,200 ohm)	Brown	Red	Red	Gold
1K5 (1,500 ohm)	Brown	Green	Red	Gold
1K8 (1,800 ohm)	Brown	Grey	Red	Gold
2K2 (2,200 ohm)	Red	Red	Red	Gold
2K7 (2,700 ohm)	Red	Purple	Red	Gold
3K3 (3,300 ohm)	Orange	Orange	Red	Gold
3K9 (3,900 ohm)	Orange	White	Red	Gold
4K7 (4,700 ohm)	Yellow	Purple	Red	Gold
5K6 (5,600 ohm)	Green	Blue	Red	Gold
6K8 (6,800 ohm)	Blue	Grey	Red	Gold
8K2 (8,200 ohm)	Grey	Red	Red	Gold

100K (100,000 ohm)	Brown	Black	Yellow	Gold
120K (120,000 ohm)	Brown	Red	Yellow	Gold
150K (150,000 ohm)	Brown	Green	Yellow	Gold
180K (180,000 ohm)	Brown	Grey	Yellow	Gold
220K (220,000 ohm)	Red	Red	Yellow	Gold
270K (270,000 ohm)	Red	Purple	Yellow	Gold
330K (330,000 ohm)	Orange	Orange	Yellow	Gold
390K (390,000 ohm)	Orange	White	Yellow	Gold
470K (470,000 ohm)	Yellow	Purple	Yellow	Gold
560K (560,000 ohm)	Green	Blue	Yellow	Gold
680K (680,000 ohm)	Blue	Grey	Yellow	Gold
820K (820,000 ohm)	Grey	Red	Yellow	Gold

10M (10,000,000 ohm)	Brown	Black	Blue	Gold
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R=Ω (ohms)

Example 100R (100 ohms)
with a 5% Tolerance



Standard Four Band Resistor Table and Calculator

	1st Band	2nd Band	3rd Band	4th Band
Colour			Multiplier	Tolerance
Black	0	0	X1Ω	
Brown	1	1	X 10Ω	1%
Red	2	2	X 100Ω	2%
Orange	3	3	X 1,000Ω	
Yellow	4	4	X 10,000Ω	
Green	5	5	X 100,000Ω	
Blue	6	6	X 1,000,000Ω	
Violet	7	7		
Grey	8	8		
White	9	9		
Gold	n/a	n/a	÷10Ω	5%
Silver	n/a	n/a	÷100Ω	10%
None	n/a	n/a	n/a	20%