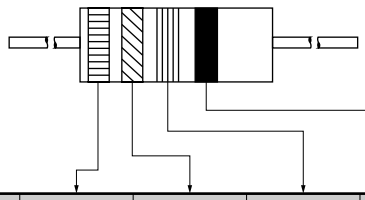
Product Marking

●Color coding

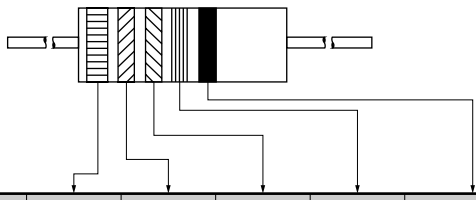
• Three - color band or four - color band system



Color	1st color band	2nd color band	3rd color band	4th color band
	1st figure	2nd figure	Multiplier	Resistance tolerance
Black	0	0	10^0	–
Brown	1	1	10^1	F(±1%)
Red	2	2	10^2	G(±2%)
Orange	3	3	10^3	–
Yellow	4	4	10^4	–
Green	5	5	10^5	–
Blue	6	6	10^6	–
Purple	7	7	10^7	–
Gray	8	8	10^8	–
White	9	9	10^9	–
Gold	–	–	10^{-1}	J(±5%)
Silver	–	–	10^{-2}	K(±10%)
Not colored	–	–	–	M(±20%)

*For three-color band system the 4th color band is eliminated (Resistance tolerance is ±20%).

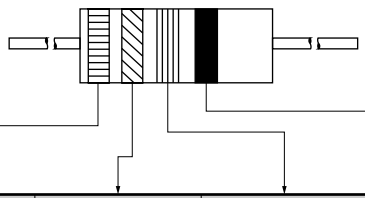
• Five - color band system



Color	1st color band	2nd color band	3rd color band	4th color band	5th color band
	1st figure	2nd figure	3rd figure	Multiplier	Resistance tolerance
Black	0	0	0	10^0	–
Brown	1	1	1	10^1	F(±1%)
Red	2	2	2	10^2	G(±2%)
Orange	3	3	3	10^3	–
Yellow	4	4	4	10^4	–
Green	5	5	5	10^5	D(±0.5%)
Blue	6	6	6	10^6	C(±0.25%)
Purple	7	7	7	10^7	B(±0.1%)
Gray	8	8	8	10^8	–
White	9	9	9	10^9	–
Gold	–	–	–	10^{-1}	–
Silver	–	–	–	10^{-2}	–

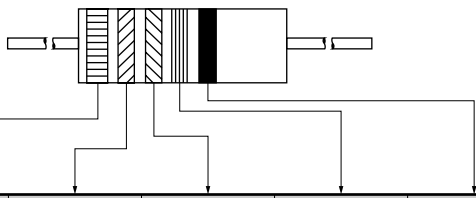
*RC1/2U : Please refer to page 56.

• Example



1st color band	2nd color band	3rd color band	4th color band
Brown	Red	Yellow	Gold
1	2	10^4	±5%
12 ×10,000 (ohm) ±5%			
120k ohm J			

• Example



1st color band	2nd color band	3rd color band	4th color band	5th color band
Purple	Blue	Gray	Gold	Brown
7	6	8	10^{-1}	±1%
768 ×0.1 (ohm) ±1%				
76.8 ohm F				

●Rated resistance symbols

The symbols to indicate rated resistance are depicted in 3 characters (for the E6, E12 and E24 series) or 4 characters (for the E48, E96 and E192 series) as indicated below.
In the case of 3 characters, the first and second character represent the effective numeral, and the third character is the multiplier following the effective numeral.
In the case of 4 characters, the first, second and third character represent the effective numeral, and the fourth character is the multiplier following the effective numeral.
When a decimal point exists, the decimal point is represented by an R for all effective numerals.

• 3-Digit (example)

Rated resistance symbols	Resistance value
R15	0.15 ohm
1R5	1.5 ohm
150	15 ohm
151	150 ohm
152	1.5k ohm
153	15k ohm
154	150k ohm
155	1.5M ohm
156	15M ohm
157	150M ohm

• 4-Digit (example)

Rated resistance symbols	Resistance value
R154	0.154 ohm
1R54	1.54 ohm
15R4	15.4 ohm
1540	154 ohm
1541	1.54k ohm
1542	15.4k ohm
1543	154k ohm
1544	1.54M ohm
1545	15.4M ohm
1546	154M ohm

• Resistance values of 100M ohm and greater(example)

Rated resistance symbols	Resistance value
100M	100M ohm
1G00	1G ohm
10G0	10G ohm
100G	100G ohm

*The letters M and G are used as multipliers for 10^6 and 10^9 respectively of the resistance value expressed in ohms.