

STANDARD EIA DECADE VALUES

SURFACE MOUNT CENTER

Decade tables are used to select standard values. The following tables show what is considered standard within each tolerance group. Each number represents a series of values, determined by multiplying or dividing the number by powers of 10, within the range of the particular product. For example, the number 22 represents the following ohm values: 0.22Ω, 2.2Ω, 22Ω, 220Ω, 2.2KΩ, 22KΩ, 220KΩ, 2.2MΩ, etc. It also represents inductance values in the same way: .22μH, 2.2μH, 22μH, 220μH, 2200μH, etc. Consult the data sheet on each product to determine the available range. Some series are not restricted to standard values on special order but stock availability is typically only in standard values.

E-6 Series (±20%)

10	15	22	33	47	68
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E-12 Series (±10%)

10	12	15	18	22	27	33	39	47	56	68	82
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E-24 Series (±5%, ±2%)

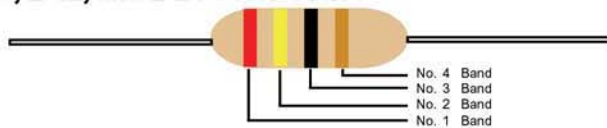
10	11	12	13	15	16	18	20	22	24	27	30
33	36	39	43	47	51	56	62	68	75	82	91

E-96 Series (±1%)

10	10.2	10.5	10.7	11	11.3	11.5	11.8	12.1	12.4	12.7	13
13.3	13.7	14	14.3	14.7	15	15.4	15.8	16.2	16.5	16.9	17.4
17.8	18.2	18.7	19.1	19.6	20	20.5	21	21.5	22.1	22.6	23.2
23.7	24.3	24.9	25.5	26.1	26.7	27.4	28	28.7	29.4	30.1	30.9
31.6	32.4	33.2	34	34.8	35.7	36.5	37.4	38.3	39.2	40.2	41.2
42.2	43.2	44.2	45.3	46.4	47.5	48.7	49.9	51.1	52.3	53.6	54.9
56.2	57.6	59	60.4	61.9	63.4	64.9	66.5	68.1	69.8	71.5	73.2
75	76.8	78.7	80.6	82.5	84.5	86.6	88.7	90.9	93.1	95.3	97.6

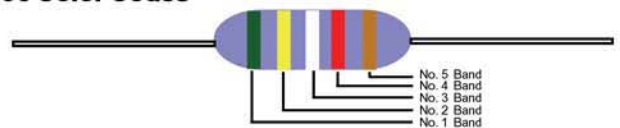
Standard EIA Color Code Table

E-6, E-12, and E-24 Color Codes *



COLOR	No. 1	No. 2	No. 3	No. 4
BLACK	0	0	10 ⁰	-
BROWN	1	1	10 ¹	-
RED	2	2	10 ²	±2%
ORANGE	3	3	10 ³	-
YELLOW	4	4	10 ⁴	-
GREEN	5	5	10 ⁵	-
BLUE	6	6	10 ⁶	-
VIOLET	7	7	10 ⁷	-
GRAY	8	8	10 ⁸	-
WHITE	9	9	10 ⁹	-
GOLD	-	-	10 ⁻¹	±5%
SILVER	-	-	10 ⁻²	±10%

E-96 Color Codes



COLOR	No. 1	No. 2	No. 3	No. 4	No. 5
BLACK	0	0	0	10 ⁰	-
BROWN	1	1	1	10 ¹	±1%
RED	2	2	2	10 ²	-
ORANGE	3	3	3	10 ³	-
YELLOW	4	4	4	10 ⁴	-
GREEN	5	5	5	10 ⁵	±.5%
BLUE	6	6	6	10 ⁶	±.25%
VIOLET	7	7	7	10 ⁷	±.1%
GRAY	8	8	8	10 ⁸	-
WHITE	9	9	9	10 ⁹	-
GOLD	-	-	-	10 ⁻¹	-

* Military-grade molded inductors <10μH utilize a gold band to indicate a decimal point.

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