

Standard Color Code System

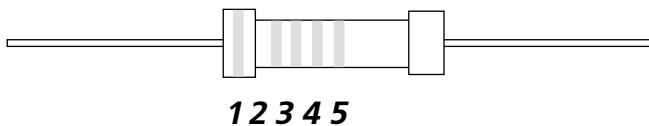


4th Band

Red	= ±2%
Gold	= ±5%
Silver	= ±10%

1 st Band	2 nd Band	3 rd Band
Black = 0	Black = 0	Black = Multiply by 1 (10 ⁰)
Brown = 1	Brown = 1	Brown = Multiply by 10 (10 ¹)
Red = 2	Red = 2	Red = Multiply by 100 (10 ²)
Orange = 3	Orange = 3	Orange = Multiply by 1,000 (10 ³)
Yellow = 4	Yellow = 4	Yellow = Multiply by 10,000 (10 ⁴)
Green = 5	Green = 5	Green = Multiply by 100,000 (10 ⁵)
Blue = 6	Blue = 6	Blue = Multiply by 1,000,000 (10 ⁶)
Violet = 7	Violet = 7	Violet = Multiply by 10,000,000 (10 ⁷)
Grey = 8	Grey = 8	Gold = Multiply by 0.1 (10 ⁻¹)
White = 9	White = 9	Silver = Multiply by 0.01 (10 ⁻²)

Five Band Color Code (Available for 1% & FRN Products)



5th Band

Violet	= ±0,1%
Blue	= ±0,25%
Green	= ±0,5%
Brown	= ±1%

1 st Band	2 nd Band	3 rd Band	4 th Band
Black = 0	Black = 0	Black = 0	Black = Multiply by 1 (10 ⁰)
Brown = 1	Brown = 1	Brown = 1	Brown = Multiply by 10 (10 ¹)
Red = 2	Red = 2	Red = 2	Red = Multiply by 100 (10 ²)
Orange = 3	Orange = 3	Orange = 3	Orange = Multiply by 1,000 (10 ³)
Yellow = 4	Yellow = 4	Yellow = 4	Yellow = Multiply by 10,000 (10 ⁴)
Green = 5	Green = 5	Green = 5	Green = Multiply by 100,000 (10 ⁵)
Blue = 6	Blue = 6	Blue = 6	Blue = Multiply by 1,000,000 (10 ⁶)
Violet = 7	Violet = 7	Violet = 7	Violet = Multiply by 10,000,000 (10 ⁷)
Grey = 8	Grey = 8	Grey = 8	Gold = Multiply by 0.1 (10 ⁻¹)
White = 9	White = 9	White = 9	Silver = Multiply by 0.01 (10 ⁻²)

Standard Nominal Resistance Values

E-24 series standard resistance values & the codes to be used in the part No. system (4 digits):

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
1.0Ω	010J	10Ω	0100	100Ω	0101	1.0KΩ	0102	10KΩ	0103	100KΩ	0104	1.0MΩ	0105
1.1Ω	011J	11Ω	0110	110Ω	0111	1.1KΩ	0112	11KΩ	0113	110KΩ	0114	1.1MΩ	0115
1.2Ω	012J	12Ω	0120	120Ω	0121	1.2KΩ	0122	12KΩ	0123	120KΩ	0124	1.2MΩ	0125
1.3Ω	013J	13Ω	0130	130Ω	0131	1.3KΩ	0132	13KΩ	0133	130KΩ	0134	1.3MΩ	0135
1.5Ω	015J	15Ω	0150	150Ω	0151	1.5KΩ	0152	15KΩ	0153	150KΩ	0154	1.5MΩ	0155
1.6Ω	016J	16Ω	0160	160Ω	0161	1.6KΩ	0162	16KΩ	0163	160KΩ	0164	1.6MΩ	0165
1.8Ω	018J	18Ω	0180	180Ω	0181	1.8KΩ	0182	18KΩ	0183	180KΩ	0184	1.8MΩ	0185
2.0Ω	020J	20Ω	0200	200Ω	0201	2.0KΩ	0202	20KΩ	0203	200KΩ	0204	2.0MΩ	0205
2.2Ω	022J	22Ω	0220	220Ω	0221	2.2KΩ	0222	22KΩ	0223	220KΩ	0224	2.2MΩ	0225
2.4Ω	024J	24Ω	0240	240Ω	0241	2.4KΩ	0242	24KΩ	0243	240KΩ	0244	2.4MΩ	0245
2.7Ω	027J	27Ω	0270	270Ω	0271	2.7KΩ	0272	27KΩ	0273	270KΩ	0274	2.7MΩ	0275
3.0Ω	030J	30Ω	0300	300Ω	0301	3.0KΩ	0302	30KΩ	0303	300KΩ	0304	3.0MΩ	0305
3.3Ω	033J	33Ω	0330	330Ω	0331	3.3KΩ	0332	33KΩ	0333	330KΩ	0334	3.3MΩ	0335
3.6Ω	036J	36Ω	0360	360Ω	0361	3.6KΩ	0362	36KΩ	0363	360KΩ	0364	3.6MΩ	0365
3.9Ω	039J	39Ω	0390	390Ω	0391	3.9KΩ	0392	39KΩ	0393	390KΩ	0394	3.9MΩ	0395
4.3Ω	043J	43Ω	0430	430Ω	0431	4.3KΩ	0432	43KΩ	0433	430KΩ	0434	4.3MΩ	0435
4.7Ω	047J	47Ω	0470	470Ω	0471	4.7KΩ	0472	47KΩ	0473	470KΩ	0474	4.7MΩ	0475
5.1Ω	051J	51Ω	0510	510Ω	0511	5.1KΩ	0512	51KΩ	0513	510KΩ	0514	5.1MΩ	0515
5.6Ω	056J	56Ω	0560	560Ω	0561	5.6KΩ	0562	56KΩ	0563	560KΩ	0564	5.6MΩ	0565
6.2Ω	062J	62Ω	0620	620Ω	0621	6.2KΩ	0622	62KΩ	0623	620KΩ	0624	6.2MΩ	0625
6.8Ω	068J	68Ω	0680	680Ω	0681	6.8KΩ	0682	68KΩ	0683	680KΩ	0684	6.8MΩ	0685
7.5Ω	075J	75Ω	0750	750Ω	0751	7.5KΩ	0752	75KΩ	0753	750KΩ	0754	7.5MΩ	0755
8.2Ω	082J	82Ω	0820	820Ω	0821	8.2KΩ	0822	82KΩ	0823	820KΩ	0824	8.2MΩ	0825
9.1Ω	091J	91Ω	0910	910Ω	0911	9.1KΩ	0912	91KΩ	0913	910KΩ	0914	9.1MΩ	0915
												10MΩ	0106

E-96 series standard resistance values & the codes to be used in the part No. system (4 digits):

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
10.0Ω	100J	17.8Ω	178J	31.6Ω	316J	56.2Ω	562J	100Ω	1000	178Ω	1780	316Ω	3160	562Ω	5620
10.2Ω	102J	18.2Ω	182J	32.4Ω	324J	57.6Ω	576J	102Ω	1020	182Ω	1820	324Ω	3240	576Ω	5760
10.5Ω	105J	18.7Ω	187J	33.2Ω	332J	59.0Ω	590J	105Ω	1050	187Ω	1870	332Ω	3320	590Ω	5900
10.7Ω	107J	19.1Ω	191J	34.0Ω	340J	60.4Ω	604J	107Ω	1070	191Ω	1910	340Ω	3400	604Ω	6040
11.0Ω	110J	19.6Ω	196J	34.8Ω	348J	61.9Ω	619J	110Ω	1100	196Ω	1960	348Ω	3480	619Ω	6190
11.3Ω	113J	20.0Ω	200J	35.7Ω	357J	63.4Ω	634J	113Ω	1130	200Ω	2000	357Ω	3570	634Ω	6340
11.5Ω	115J	20.5Ω	205J	36.5Ω	365J	64.9Ω	649J	115Ω	1150	205Ω	2050	365Ω	3650	649Ω	6490
11.8Ω	118J	21.0Ω	210J	37.4Ω	374J	66.5Ω	665J	118Ω	1180	210Ω	2100	374Ω	3740	665Ω	6650
12.1Ω	121J	21.5Ω	215J	38.3Ω	383J	68.1Ω	681J	121Ω	1210	215Ω	2150	383Ω	3830	681Ω	6810
12.4Ω	124J	22.1Ω	221J	39.2Ω	392J	69.8Ω	698J	124Ω	1240	221Ω	2210	392Ω	3920	698Ω	6980
12.7Ω	127J	22.6Ω	226J	40.2Ω	402J	71.5Ω	715J	127Ω	1270	226Ω	2260	402Ω	4020	715Ω	7150
13.0Ω	130J	23.2Ω	232J	41.2Ω	412J	73.2Ω	732J	130Ω	1300	232Ω	2320	412Ω	4120	732Ω	7320
13.3Ω	133J	23.7Ω	237J	42.2Ω	422J	75.0Ω	750J	133Ω	1330	237Ω	2370	422Ω	4220	750Ω	7500
13.7Ω	137J	24.3Ω	243J	43.2Ω	432J	76.8Ω	768J	137Ω	1370	243Ω	2430	432Ω	4320	768Ω	7680
14.0Ω	140J	24.9Ω	249J	44.2Ω	442J	78.7Ω	787J	140Ω	1400	249Ω	2490	442Ω	4420	787Ω	7870
14.3Ω	143J	25.5Ω	255J	45.3Ω	453J	80.6Ω	806J	143Ω	1430	255Ω	2550	453Ω	4530	806Ω	8060
14.7Ω	147J	26.1Ω	261J	46.4Ω	464J	82.5Ω	825J	147Ω	1470	261Ω	2610	464Ω	4640	825Ω	8250
15.0Ω	150J	26.7Ω	267J	47.5Ω	475J	84.5Ω	845J	150Ω	1500	267Ω	2670	475Ω	4750	845Ω	8450
15.4Ω	154J	27.4Ω	274J	48.7Ω	487J	86.6Ω	866J	154Ω	1540	274Ω	2740	487Ω	4870	866Ω	8660
15.8Ω	158J	28.0Ω	280J	49.9Ω	499J	88.7Ω	887J	158Ω	1580	280Ω	2800	499Ω	4990	887Ω	8870
16.2Ω	162J	28.7Ω	287J	51.1Ω	511J	90.9Ω	909J	162Ω	1620	287Ω	2870	511Ω	5110	909Ω	9090
16.5Ω	165J	29.4Ω	294J	52.3Ω	523J	93.1Ω	931J	165Ω	1650	294Ω	2940	523Ω	5230	931Ω	9310
16.9Ω	169J	30.1Ω	301J	53.6Ω	536J	95.3Ω	953J	169Ω	1690	301Ω	3010	536Ω	5360	953Ω	9530
17.4Ω	174J	30.9Ω	309J	54.9Ω	549J	97.6Ω	976J	174Ω	1740	309Ω	3090	549Ω	5490	976Ω	9760

Standard Nominal Resistance Values

Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code	Value	Code
1.00K	1001	2.37K	2371	5.62K	5621	13.3K	1332	31.6K	3162	75.0K	7502	178K	1783	422K	4223
1.02K	1021	2.43K	2431	5.76K	5761	13.7K	1372	32.4K	3242	76.8K	7682	182K	1823	432K	4323
1.05K	1051	2.49K	2491	5.90K	5901	14.0K	1402	33.2K	3322	78.7K	7872	187K	1873	442K	4423
1.07K	1071	2.55K	2551	6.04K	6041	14.3K	1432	34.0K	3402	80.6K	8062	191K	1913	453K	4533
1.10K	1101	2.61K	2611	6.19K	6191	14.7K	1472	34.8K	3482	82.5K	8252	196K	1963	464K	4643
1.13K	1131	2.67K	2671	6.34K	6341	15.0K	1502	35.7K	3572	84.5K	8452	200K	2003	475K	4753
1.15K	1151	2.74K	2741	6.49K	6491	15.4K	1542	36.5K	3652	86.6K	8662	205K	2053	487K	4873
1.18K	1181	2.80K	2801	6.65K	6651	15.8K	1582	37.4K	3742	88.7K	8872	210K	2103	499K	4993
1.21K	1211	2.87K	2871	6.81K	6811	16.2K	1622	38.2K	3822	90.9K	9092	215K	2153	511K	5113
1.24K	1241	2.94K	2941	6.98K	6981	16.5K	1652	39.2K	3922	93.1K	9312	221K	2213	523K	5233
1.27K	1271	3.01K	3011	7.15K	7151	16.9K	1692	40.2K	4022	95.3K	9532	226K	2263	536K	5363
1.30K	1301	3.09K	3091	7.32K	7321	17.4K	1742	41.2K	4122	97.6K	9762	232K	2323	549K	5493
1.33K	1331	3.16K	3161	7.50K	7501	17.8K	1782	42.2K	4222	100K	1003	237K	2373	562K	5623
1.37K	1371	3.24K	3241	7.68K	7681	18.2K	1822	43.2K	4322	102K	1023	243K	2433	576K	5763
1.40K	1401	3.32K	3321	7.87K	7871	18.7K	1872	44.2K	4422	105K	1053	249K	2493	590K	5903
1.43K	1431	3.40K	3401	8.06K	8061	19.1K	1912	45.3K	4532	107K	1073	255K	2553	604K	6043
1.47K	1471	3.48K	3481	8.25K	8251	19.6K	1962	46.4K	4642	110K	1103	261K	2613	619K	6193
1.50K	1501	3.57K	3571	8.45K	8451	20.0K	2002	47.5K	4752	113K	1133	267K	2673	634K	6343
1.54K	1541	3.65K	3651	8.66K	8661	20.5K	2052	48.7K	4872	115K	1153	274K	2743	649K	6493
1.58K	1581	3.74K	3741	8.87K	8871	21.0K	2102	49.9K	4992	118K	1183	280K	2803	665K	6653
1.62K	1621	3.83K	3831	9.09K	9091	21.5K	2152	51.1K	5112	121K	1213	283K	2833	681K	6813
1.65K	1651	3.92K	3921	9.31K	9311	22.1K	2212	52.3K	5232	124K	1243	294K	2943	698K	6983
1.69K	1691	4.02K	4021	9.53K	9531	22.6K	2262	536K	5362	127K	1273	301K	3013	715K	7153
1.74K	1741	4.12K	4121	9.76K	9761	23.2K	2322	54.9K	5492	130K	1303	309K	3093	732K	7323
1.78K	1781	4.22K	4221	10.0K	1002	23.7K	2372	56.2K	5622	133K	1333	316K	3163	750K	7503
1.82K	1821	4.32K	4321	10.2K	1022	24.3K	2432	57.6K	5762	137K	1373	324K	3243	768K	7683
1.87K	1871	4.42K	4421	10.5K	1052	24.9K	2492	59.0K	5902	140K	1403	332K	3323	787K	7873
1.91K	1911	4.53K	4531	10.7K	1072	25.5K	2552	60.4K	6042	143K	1433	340K	3403	806K	8063
1.96K	1961	4.64K	4641	11.0K	1102	26.1K	2612	61.9K	6192	147K	1473	348K	3483	825K	8253
2.00K	2001	4.75K	4751	11.3K	1132	26.7K	2672	63.4K	6342	150K	1503	357K	3573	845K	8453
2.05K	2051	4.87K	4871	11.5K	1152	27.4K	2742	64.9K	6492	154K	1543	365K	3653	866K	8663
2.10K	2101	4.99K	4991	11.8K	1182	28.0K	2802	66.5K	6652	158K	1583	374K	3743	887K	8873
2.15K	2151	5.11K	5111	12.1K	1212	28.7K	2872	68.1K	6812	162K	1623	383K	3833	909K	9093
2.21K	2211	5.23K	5231	12.4K	1242	29.4K	2942	69.8K	6982	165K	1653	392K	3923	931K	9313
2.26K	2261	5.36K	5361	12.7K	1272	30.1K	3012	71.5K	7152	169K	1693	402K	4023	953K	9533
2.32K	2321	5.49K	5491	13.0K	1302	30.9K	3092	73.2K	7322	174K	1743	412K	4123	976K	9763
														1M	1004

Standard Nominal Resistance Values

The below chart shows the nominal resistance value for each series. The values in the chart have been in this order using the approximate values that are based on the common ratios given in the following table:

Series	Common Ratio	Remarks
E-6	$\sqrt[6]{10}$ (1.46)	Rounded off to a 2-digit figure
E-12	$\sqrt[12]{10}$ (1.21)	
E-24	$\sqrt[24]{10}$ (1.10)	
E-96	$\sqrt[96]{10}$ (1.02)	Rounded off to a 3-digit figure

E-6	E-12	E-24	E-96	E-6	E-12	E-24	E-96	E-6	E-12	E-24	E-96			
1.0	1.0	1.0	1.00	2.2	2.2	2.2	2.15	4.7	4.7	4.7	4.64			
			1.02				2.21				4.75			
			1.05				2.26				4.87			
			1.07				2.32				4.99			
		1.1	1.10			2.37	5.11							
			1.13			2.43	5.23							
			1.15			2.49	5.36							
			1.18			2.55	5.49							
	1.2	1.2	1.21		2.61	5.62								
			1.24		2.67	5.76								
			1.27		2.74	5.90								
			1.30		2.80	6.04								
		1.3	1.33		2.87	6.19								
			1.37		2.94	6.34								
			1.40		3.01	6.49								
			1.43		3.09	6.65								
	1.5	1.5	1.5		1.47	3.3	3.3		3.3	3.16	6.8	6.8	6.8	6.81
					1.50					3.24				6.98
					1.54					3.32				7.15
					1.58					3.40				7.32
1.6			1.62	3.48	7.50									
			1.65	3.57	7.68									
			1.69	3.65	7.87									
			1.74	3.74	8.06									
1.8		1.8	1.78	3.83	8.25									
			1.82	3.92	8.45									
			1.87	4.02	8.66									
			1.91	4.12	8.87									
		2.0	1.96	4.22	9.09									
			2.00	4.32	9.31									
			2.05	4.42	9.53									
			2.10	4.53	9.76									