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
1.0	1.0	1.0	1.00
			1.02
			1.05
			1.07
		1.1	1.10
			1.13
			1.15
			1.18
	1.2	1.2	1.21
			1.24
			1.27
			1.30
		1.3	1.33
			1.37
			1.40
			1.43
1.5	1.5	1.5	1.47
			1.50
			1.54
			1.58
		1.6	1.62
			1.65
			1.69
			1.74
	1.8	1.8	1.78
			1.82
			1.87
			1.91
		2.0	1.96
			2.00
			2.05
			2.10

E-6	E-12	E-24	E-96
2.2	2.2	2.2	2.15
			2.21
			2.26
			2.32
		2.4	2.37
			2.43
			2.49
			2.55
	2.7	2.7	2.61
			2.67
			2.74
			2.80
		3.0	2.87
			2.94
			3.01
			3.09
3.3	3.3	3.3	3.16
			3.24
			3.32
			3.40
		3.6	3.48
			3.57
			3.65
			3.74
	3.9	3.9	3.83
			3.92
			4.02
			4.12
		4.3	4.22
			4.32
			4.42
			4.53

E-6	E-12	E-24	E-96
4.7	4.7	4.7	4.64
			4.75
			4.87
			4.99
		5.1	5.11
			5.23
			5.36
			5.49
	5.6	5.6	5.62
			5.76
			5.90
			6.04
		6.2	6.19
			6.34
			6.49
			6.65
6.8	6.8	6.8	6.81
			6.98
			7.15
			7.32
		7.5	7.50
			7.68
			7.87
			8.06
	8.2	8.2	8.25
			8.45
			8.66
			8.87
		9.1	9.09
			9.31
			9.53
			9.76

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

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

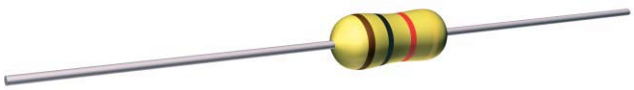
VALUE	CODE	VALUE	CODE	VALUE	CODE	VALUE	CODE	VALUE	CODE	VALUE	CODE	VALUE	CODE	VALUE	CODE
10.0T	**100J**	17.8T	**178J**	31.6T	**316J**	56.2T	**562J**	100T	**1000**	178T	**1780**	316T	**3160**	562T	**5620**
10.2T	**102J**	18.2T	**182J**	32.4T	**324J**	57.6T	**576J**	102T	**1020**	182T	**1820**	324T	**3240**	576T	**5760**
10.5T	**105J**	18.7T	**187J**	33.2T	**332J**	59.0T	**590J**	105T	**1050**	187T	**1870**	332T	**3320**	590T	**5900**
10.7T	**107J**	19.1T	**191J**	34.0T	**340J**	60.4T	**604J**	107T	**1070**	191T	**1910**	340T	**3400**	604T	**6040**
11.0T	**110J**	19.6T	**196J**	34.8T	**348J**	61.9T	**619J**	110T	**1100**	196T	**1960**	348T	**3480**	619T	**6190**
11.3T	**113J**	20.0T	**200J**	35.7T	**357J**	63.4T	**634J**	113T	**1130**	200T	**2000**	357T	**3570**	634T	**6340**
11.5T	**115J**	20.5T	**205J**	36.5T	**365J**	64.9T	**649J**	115T	**1150**	205T	**2050**	365T	**3650**	649T	**6490**
11.8T	**118J**	21.0T	**210J**	37.4T	**374J**	66.5T	**665J**	118T	**1180**	210T	**2100**	374T	**3740**	665T	**6650**
12.1T	**121J**	21.5T	**215J**	38.3T	**383J**	68.1T	**681J**	121T	**1210**	215T	**2150**	383T	**3830**	681T	**6810**
12.4T	**124J**	22.1T	**221J**	39.2T	**392J**	69.8T	**698J**	124T	**1240**	221T	**2210**	392T	**3920**	698T	**6980**
12.7T	**127J**	22.6T	**226J**	40.2T	**402J**	71.5T	**715J**	127T	**1270**	226T	**2260**	402T	**4020**	715T	**7150**
13.0T	**130J**	23.2T	**232J**	41.2T	**412J**	73.2T	**732J**	130T	**1300**	232T	**2320**	412T	**4120**	732T	**7320**
13.3T	**133J**	23.7T	**237J**	42.2T	**422J**	75.0T	**750J**	133T	**1330**	237T	**2370**	422T	**4220**	750T	**7500**
13.7T	**137J**	24.3T	**243J**	43.2T	**432J**	76.8T	**768J**	137T	**1370**	243T	**2430**	432T	**4320**	768T	**7680**
14.0T	**140J**	24.9T	**249J**	44.2T	**442J**	78.7T	**787J**	140T	**1400**	249T	**2490**	442T	**4420**	787T	**7870**
14.3T	**143J**	25.5T	**255J**	45.3T	**453J**	80.6T	**806J**	143T	**1430**	255T	**2550**	453T	**4530**	806T	**8060**
14.7T	**147J**	26.1T	**261J**	46.4T	**464J**	82.5T	**825J**	147T	**1470**	261T	**2610**	464T	**4640**	825T	**8250**
15.0T	**150J**	26.7T	**267J**	47.5T	**475J**	84.5T	**845J**	150T	**1500**	267T	**2670**	475T	**4750**	845T	**8450**
15.4T	**154J**	27.4T	**274J**	48.7T	**487J**	86.6T	**866J**	154T	**1540**	274T	**2740**	487T	**4870**	866T	**8660**
15.8T	**158J**	28.0T	**280J**	49.9T	**499J**	88.7T	**887J**	158T	**1580**	280T	**2800**	499T	**4990**	887T	**8870**
16.2T	**162J**	28.7T	**287J**	51.1T	**511J**	90.9T	**909J**	162T	**1620**	287T	**2870**	511T	**5110**	909T	**9090**
16.5T	**165J**	29.4T	**294J**	52.3T	**523J**	93.1T	**931J**	165T	**1650**	294T	**2940**	523T	**5230**	931T	**9310**
16.9T	**169J**	30.1T	**301J**	53.6T	**536J**	95.3T	**953J**	169T	**1690**	301T	**3010**	536T	**5360**	953T	**9530**
17.4T	**174J**	30.9T	**309J**	54.9T	**549J**	97.6T	**976J**	174T	**1740**	309T	**3090**	549T	**5490**	976T	**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**	38.3K	**3832**	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**	287K	**2873**	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**	53.6K	**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 Color Code System:

Four Band Color Code

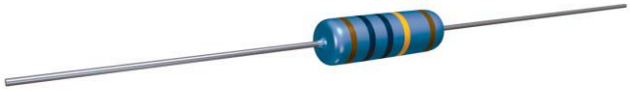


1 2 3 4

1st Band		2nd Band		3rd 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})

4th Band	
Red	= ±2%
Gold	= ±5%
Silver	= ±10%

Five Band Color Code



1 2 3 4 5

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

5th Band	
Violet	= ±0.1%
Blue	= ±0.25%
Green	= ±0.5%
Brown	= ±1%