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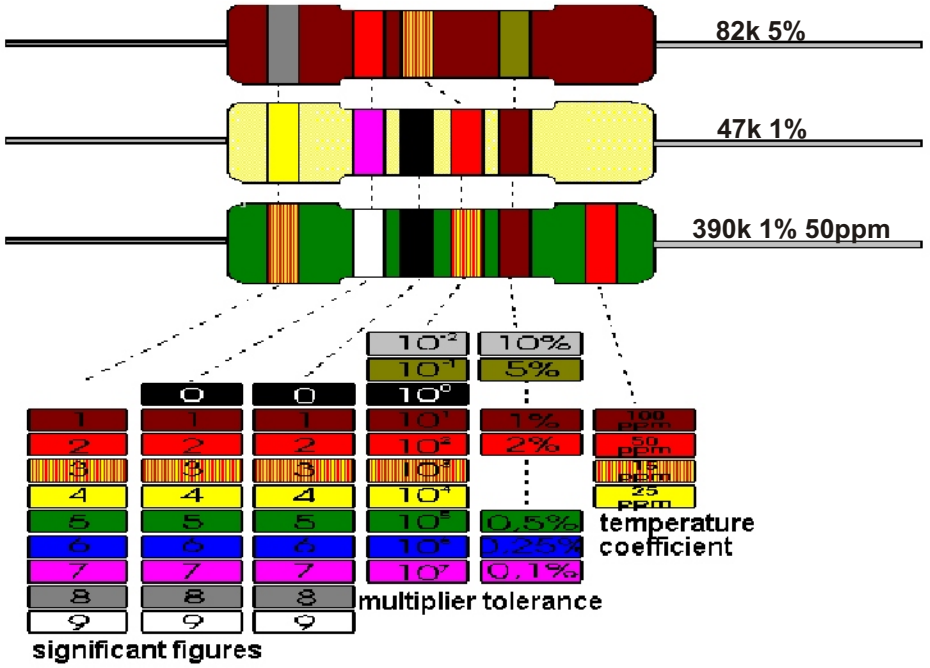
Resistor Colour Chart



Conversion Table

1,000,000pF = 1,000nF = 1uF
100,000pF = 100nF = 0.1uF
10,000pF = 10nF = 0.01uF
1,000pF = 1nF = 0.001uF
100pF = 0.1nF
10pF = 0.01nF
1pF = 0.001nF

EIA Capacitor Codes

This international code is widely used to mark various types of capacitors. Ceramic; Polyester and SMD. First and most times there are three numbers. The first two digits represent the initial value; the third digit is the multiplier; followed by the tolerance (displayed as letter). If only two numbers then value is displayed as pF. The resultant is always given as pF
ie. 472J = 47(2) two zeros = 4700pF = 4.7nF = 0.0047uF

EIA	pF	nF	uF
102	1000	1	0.001
103	10000	10	0.01
104	100000	100	0.1
105	1000000	1000	1
122	1200	1.2	0.0012
123	12000	12	0.012
124	120000	120	0.12
125	1200000	1200	1.2
152	1500	1.5	0.0015
153	15000	15	0.015
154	150000	150	0.15
155	1500000	1500	1.5
182	1800	1.8	0.0018
183	18000	18	0.018
184	180000	180	0.18
185	1800000	1800	1.8
222	2200	2.2	0.0022
223	22000	22	0.022
224	220000	220	0.22
225	2200000	2200	2.2
272	2700	2.7	0.0027
273	27000	27	0.027
274	270000	270	0.27
275	2700000	2700	2.7
332	3300	3.3	0.0033
333	33000	33	0.033
334	330000	330	0.33
335	3300000	3300	3.3
392	3900	3.9	0.0039
393	39000	39	0.039
472	4700	4.7	0.0047
473	47000	47	0.047
474	470000	470	0.47
475	4700000	4700	4.7
562	5600	5.6	0.0056
563	56000	56	0.056
682	6800	6.8	0.0068
683	68000	68	0.068
684	680000	680	0.68
685	6800000	6800	6.8
822	8200	8.2	0.0082
823	82000	82	0.082

Tolerance Range

B	0.1%
C	0.25%
D	0.5%
E	0.5%
F	1%
G	2%
H	3%
J	5%
K	10%
M	20%
N	0.05%

Temperature Range

NPO	-55 to +125
X7R	-55 to +125
Z5U	+10 to +85
Y5U	-25 to +85

Temperature Coefficient

NPO	Stable
X7R	+/-15%
Z5U	+22%, -56%
Y5V	+22%, -82%