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Inductor Color Codes

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How to read the inductor codes

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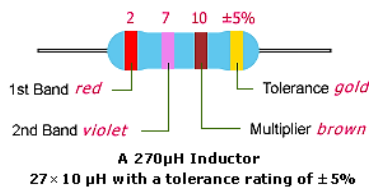
First find the tolerance band, it will typically be gold (5%) and sometimes silver (10%).

Starting from the other end, identify the first band - write down the number associated with that color; in this case Red is 2.

Now 'read' the next color, here it is Violet so write down a 7 next to the two. (You should have '27' so far.)

Now read the third or 'multiplier' band and write down that number of 10.

In this example, the 'multiplier' band is Brown so we get 270 μ H.

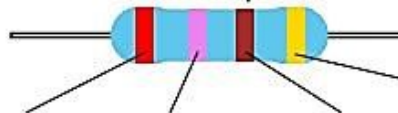


If the 'multiplier' band is Gold move the decimal point one to the left.

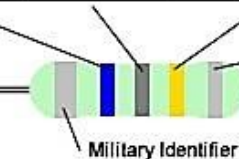
If the 'multiplier' band is Silver move the decimal point two places to the left.

TOKEN INDUCTOR COLOR CODE

Result is in μ H

4-BAND-CODE  **270 μ H \pm 5%**

COLOR	1st BAND	2nd BAND	MULTIPLIER	TOLERANCE
Black	0	0	1	\pm 20%
Brown	1	1	10	Military \pm 1%
Red	2	2	100	Military \pm 2%
Orange	3	3	1,000	Military \pm 3%
Yellow	4	4	10,000	Military \pm 4%
Green	5	5		
Blue	6	6		
Violet	7	7		
Grey	8	8		
White	9	9		
None				Military \pm 20%
Gold			0.1 / Mil. Dec. PL	Both \pm 5%
Silver			0.01	Both \pm 10%

MILITARY-CODE  **6.8 μ H \pm 10%**

Military Identifier (Silver)

TOKEN INDUCTOR COLOR CODE (EIA Standard & Military Standard)

Inductance Tolerance Codes

Symbol	B	C	S	D	F	G	H	J	K	L	M	V	N
Tolerance	\pm 0.15nH	\pm 0.2nH	\pm 0.3nH	\pm 0.5nH	\pm 1%	\pm 2%	\pm 3%	\pm 5%	\pm 10%	\pm 15%	\pm 20%	\pm 25%	\pm 30%

▶ Inductor Codes

Inductance Codes

nH	μH	SAP
1		1N0
1.2		1N2
1.5		1N5
1.8		1N8
2.2		2N2
2.7		2N7
3.3		3N3
3.9		3N9
4.7		4N7
5.6		5N6
6.8		6N8
8.2		8N2
10	0.01	10N
12	0.012	12N
15	0.015	15N
18	0.018	18N
22	0.022	22N
27	0.027	27N
33	0.033	33N
39	0.039	39N
47	0.047	47N
56	0.056	56N
68	0.068	68N
82	0.082	82N
100	0.1	R10
120	0.12	R12
150	0.15	R15
180	0.18	R18
220	0.22	R22
270	0.27	R27
330	0.33	R33
390	0.39	R39
470	0.47	R47
560	0.56	R56
680	0.68	R68

nH	μH	SAP
820	0.82	R82
	1	1R0
	1.2	1R2
	1.5	1R5
	1.8	1R8
	2.2	2R2
	2.7	2R7
	3.3	3R3
	3.9	3R9
	4.7	4R7
	5.6	5R6
	6.8	6R8
	8.2	8R2
	10	100
	12	120
	15	150
	18	180
	22	220
	27	270
	33	330
	39	390
	47	470
	56	560
	68	680
	82	820
	100	101
	120	121
	150	151
	180	181
	220	221
	270	271
	330	331
	390	391
	470	471
	560	561
	680	681
	820	821
	1000	102

nH	μH	SAP
	1200	122
	1500	152
	1800	182
	2200	222
	2700	272
	3300	332
	3900	392
	4700	472
	5600	562
	6800	682
	8200	822
	10 000	103
	12 000	123
	15 000	153
	18 000	183
	22 000	223
	27 000	273
	33 000	333
	39 000	393
	47 000	473
	56 000	563
	68 000	683
	82 000	823
	100 000	104
	120 000	124
	150 000	154
	180 000	184
	220 000	224
	270 000	274
	330 000	334