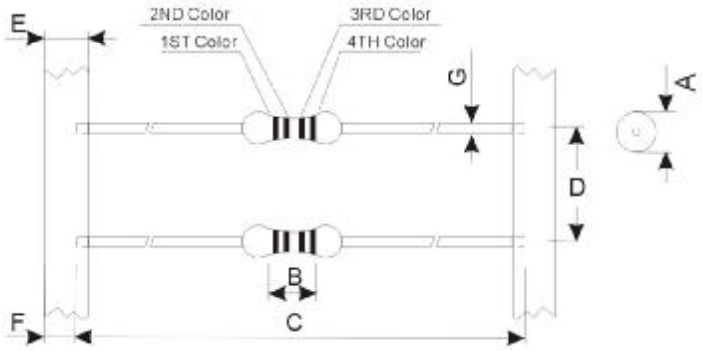
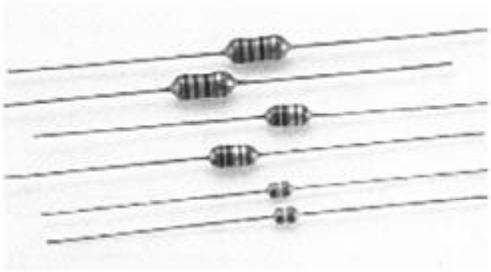
C Series:Axial Color Series(色碼電感器)

Configuration & Dimensions:(mm)

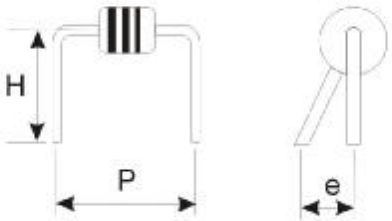


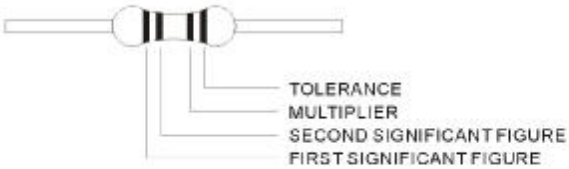


Dimensions in mm

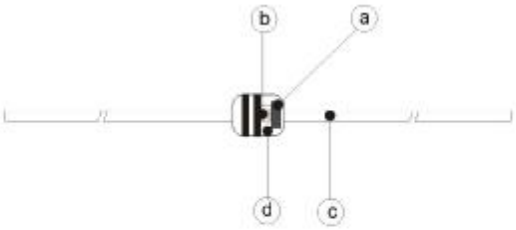
	C0204	C0307	C0410	C0512
A	2.3^{+0}	3^{+0}	4^{+0}	4.5^{+0}
B	4^{+0}	7^{+0}	10.5^{+0}	12^{+0}
C	52.4±1.5			
D	5±0.5			
E	6±1			
F	3.2^{-0}			
G	0.5∅	0.5∅	0.65∅	

M-Formed:





*C0204,C0307 are use 3 code
*C0307,C0405,C0410,C0512 are use 4 code



■ **Color Code:**The Norminal Inductance is Marked By A Color Code As Listed In Table Belo

Color	Norminal Inductance(μH)			
	First Figure	Second Figure	Magnification/*	Tolerance
Black	0		1	±20%
Brown	1		10	-
Red	2		100	-
Orange	3		1000	-
Yellow	4		-	-
Green	5		-	-
Blue	6		-	-
Purple	7		-	-
Gray	8		-	-
White	9		-	-
Gold	-		0.1	±5%
Silver	-		0.01	±10%

Schematic Diagram:

Materials:

a.Core:ferrite DR core
b.Wire:Enamelled copper wire
c.Lead:Tinned CP wire
d.Coating:Epoxy resin

General Specification:

a.Temp.rise:20℃ max.
b.Ambient temp.:60 max.
c.operating temp.:-20 --+80
d.Terminal tensile strength:1.0Kg min.
e.Terminal bending strength:0.3Kg ming.
f.Dielectric withstanding voltage :250Vrms.
g.Rated current :Base on temp rise.

Axial Color Inductor Series

Electrial Characteristics :

C 0405Series

Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
0.22±20%	50	25.200	200.0	0.08	1400
0.27±20%	50	25.200	180.0	0.09	1350
0.33±20%	50	25.200	160.0	0.10	1300
0.39±20%	50	25.200	140.0	0.11	1250
0.47±20%	50	25.200	130.0	0.12	1200
0.56±20%	50	25.200	120.0	0.14	1150
0.68±20%	50	25.200	120.0	0.15	1100
0.82±20%	50	25.200	90.0	0.16	1050
1.00±10%	50	25.200	85.0	0.17	1000
1.20±10%	50	7.960	80.0	0.18	900
1.50±10%	50	7.960	75.0	0.20	800
1.80±10%	50	7.960	57.0	0.22	770
2.20±10%	50	7.960	47.0	0.24	750
2.70±10%	50	7.960	42.0	0.26	710
3.30±10%	50	7.960	37.0	0.28	670
3.90±10%	50	7.960	35.0	0.30	620
4.70±10%	50	7.960	31.0	0.34	560
5.60±10%	50	7.960	27.0	0.45	540
6.80±10%	50	7.960	25.0	0.50	520
8.20±10%	50	7.960	23.0	0.57	490
10.00±10%	50	7.960	21.0	0.62	460
12.00±10%	50	2.520	18.0	0.90	360
15.00±10%	50	2.520	16.0	1.00	340
18.00±10%	50	2.520	15.0	1.10	310
22.00±10%	50	2.520	13.0	1.20	280
27.00±10%	50	2.520	12.0	1.30	260
33.00±10%	50	2.520	11.0	1.70	240
39.00±10%	50	2.520	10.0	1.90	220
47.00±10%	50	2.520	10.0	2.20	210
56.00±10%	50	2.520	9.0	2.40	190
68.00±10%	50	2.520	8.5	3.00	175
82.00±10%	50	2.520	8.0	3.30	165
100.00±10%	50	2.520	7.0	4.00	155
120.00±10%	50	0.796	6.5	4.90	145
150.00±10%	50	0.796	6.0	4.50	130
180.00±10%	50	0.796	5.3	6.00	125
220.00±10%	50	0.796	5.0	7.00	120
270.00±10%	50	0.796	4.6	9.00	105
330.00±10%	50	0.796	4.2	13.00	95
390.00±10%	50	0.796	3.8	15.00	90
470.00±10%	50	0.796	3.4	17.00	80
560.00±10%	50	0.796	2.8	19.00	75
680.00±10%	50	0.796	2.6	21.00	70
820.00±10%	50	0.796	2.4	25.00	60
1000.00±10%	50	0.796	2.2	31.50	55

C 0204Series

Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
0.10±10%	40	25.200	600.0	0.16	800
0.12±10%	40	25.200	520.0	0.16	790
0.15±10%	40	25.200	500.0	0.16	790
0.18±10%	40	25.200	480.0	0.18	745
0.22±10%	40	25.200	420.0	0.20	705
0.27±10%	40	25.200	390.0	0.22	670
0.33±10%	40	25.200	350.0	0.24	645
0.39±10%	50	25.200	320.0	0.27	605
0.47±10%	50	25.200	300.0	0.30	575
0.56±10%	50	25.200	280.0	0.34	540
0.68±10%	50	25.200	240.0	0.38	510
0.82±10%	50	25.200	210.0	0.43	480
1.00±10%	50	25.200	190.0	0.46	465
1.20±10%	50	7.960	110.0	0.52	435
1.50±10%	50	7.960	80.0	0.57	415
1.80±10%	50	7.960	66.0	0.60	405
2.20±10%	50	7.960	60.0	0.65	390
2.70±10%	50	7.960	54.0	0.73	370
3.30±10%	50	7.960	48.0	0.82	345
3.90±10%	50	7.960	44.0	0.90	330
4.70±10%	50	7.960	38.0	1.00	315
5.60±10%	50	7.960	34.0	1.10	300
6.80±10%	50	7.960	30.0	1.20	285
8.20±10%	50	7.960	26.0	1.30	275
10.00±10%	50	7.960	24.0	1.40	265
12.00±10%	50	2.520	22.0	1.50	255
15.00±10%	50	2.520	20.0	1.65	245
18.00±10%	50	2.520	18.0	1.90	225
22.00±10%	50	2.520	17.0	2.20	210
27.00±10%	50	2.520	16.0	2.50	200
33.00±10%	50	2.520	14.0	3.80	160
39.00±10%	50	2.520	13.0	4.20	150
47.00±10%	50	2.520	12.0	4.60	145
56.00±10%	40	2.520	11.0	5.10	140
68.00±10%	40	2.520	10.0	5.60	130
82.00±10%	40	2.520	9.5	9.60	100
100.00±10%	40	2.520	8.0	10.80	95
120.00±10%	40	0.796	6.5	12.50	85
150.00±10%	40	0.796	6.0	14.50	80
180.00±10%	40	0.796	5.5	16.30	75
220.00±10%	40	0.796	5.0	20.00	70

C0512 Series

Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
33±10%	40	2.520	7.00	0.45	500
47±10%	30	2.520	5.00	0.50	450
68±10%	30	2.520	4.00	0.60	380
100±10%	30	0.796	3.00	0.75	320
220±10%	30	0.796	0.80	1.05	280
470±5%	35	0.796	1.50	2.50	200
1000±5%	50	0.252	1.20	4.80	140
1200±5%	50	0.252	1.00	5.00	130
1500±5%	45	0.252	1.00	6.50	120
2200±5%	40	0.252	0.80	9.00	90
3300±5%	40	0.252	0.60	18.0	75
3900±5%	40	0.252	0.60	20.0	70
4700±5%	40	0.252	0.50	26.0	60
8200±5%	40	0.252	0.38	40.0	50
10000±5%	30	0.079	0.32	48.0	45
22000±5%	30	0.079	0.24	136.0	25
47000±5%	20	0.079	0.16	240.0	20
100000±5%	20	0.079	0.12	480.0	15

Axial Color Inductor Series

Electrial Characteristics :

C0307 Series

Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
0.10±20%	45	25.200	480.0	0.06	1400
0.12±20%	45	25.200	450.0	0.06	1350
0.15±20%	45	25.200	420.0	0.07	1270
0.18±20%	45	25.200	400.0	0.07	1200
0.22±20%	45	25.200	380.0	0.08	1150
0.27±20%	45	25.200	360.0	0.09	1100
0.33±20%	45	25.200	320.0	0.10	1100
0.39±20%	45	25.200	310.0	0.12	1000
0.47±20%	45	25.200	300.0	0.15	1000
0.56±20%	45	25.200	280.0	0.18	950
0.68±20%	45	25.200	240.0	0.20	900
0.82±20%	45	25.200	200.0	0.22	900
1.00±10%	45	25.200	180.0	0.25	815
1.20±10%	45	7.96	160.0	0.28	740
1.50±10%	45	7.96	140.0	0.30	700
1.80±10%	45	7.96	120.0	0.35	655
2.20±10%	45	7.96	110.0	0.40	630
2.70±10%	45	7.96	85.0	0.45	595
3.30±10%	45	7.96	74.0	0.50	575
3.90±10%	45	7.96	62.0	0.55	555
4.70±10%	45	7.96	48.0	0.60	530
5.60±10%	45	7.96	35.0	0.65	500
6.80±10%	45	7.96	28.0	0.70	470
8.20±10%	45	7.96	20.0	0.80	425
10.00±10%	45	7.96	18.0	0.85	370
12.00±10%	45	7.96	16.0	0.90	350
15.00±10%	45	7.96	14.0	1.00	335
18.00±10%	45	7.96	12.0	1.20	315
22.00±10%	45	7.96	10.0	1.35	285
27.00±10%	45	7.96	9.0	1.80	270
33.00±10%	45	7.96	8.0	2.10	255
39.00±10%	45	7.96	7.5	2.30	240
47.00±10%	45	7.96	7.0	2.60	205
56.00±10%	45	7.96	6.5	2.90	195
68.00±10%	45	7.96	6.0	3.20	185
82.00±10%	45	7.96	5.5	3.80	175
100.00±10%	45	7.96	5.0	4.20	165
120.00±10%	45	7.96	4.8	4.50	160
150.00±10%	45	7.96	4.5	5.00	150
180.00±10%	45	7.96	4.0	6.00	140
220.00±10%	45	7.96	3.5	7.00	130
270.00±10%	45	7.96	3.0	7.50	120
330.00±10%	45	7.96	2.8	8.00	100
390.00±10%	45	7.96	2.6	10.00	95
470.00±10%	45	7.96	2.4	13.00	90
560.00±10%	45	7.96	2.0	15.00	85
680.00±10%	45	7.96	1.8	16.00	75
820.00±10%	45	7.96	1.6	23.00	65
1000.00±10%	45	7.96	1.4	26.00	60

C0410 Series

Inductance (μH)	Q min.	Test Freq. (MHz)	SRF (MHz) min.	RDC (Ω) max.	IDC (mA) max.
0.10±20%	50	25.200	480.0	0.06	1700
0.12±20%	50	25.200	450.0	0.06	1640
0.15±20%	50	25.200	420.0	0.07	1560
0.18±20%	50	25.200	400.0	0.07	1480
0.22±20%	50	25.200	380.0	0.08	1400
0.27±20%	50	25.200	340.0	0.09	1320
0.33±20%	50	25.200	300.0	0.10	1280
0.39±20%	50	25.200	280.0	0.12	1200
0.47±20%	50	25.200	250.0	0.13	1150
0.56±20%	50	25.200	230.0	0.14	1100
0.68±20%	50	25.200	210.0	0.15	1030
0.82±20%	50	25.200	172.0	0.16	980
1.00±10%	50	25.200	157.0	0.17	920
1.20±10%	50	7.96	144.0	0.18	880
1.50±10%	50	7.96	131.0	0.2	830
1.80±10%	50	7.96	121.0	0.22	790
2.20±10%	50	7.96	110.0	0.24	750
2.70±10%	60	7.96	100.0	0.25	720
3.30±10%	60	7.96	94.0	0.30	670
3.90±10%	60	7.96	86.0	0.35	640
4.70±10%	70	7.96	80.0	0.40	650
5.60±10%	70	7.96	74.0	0.45	590
6.80±10%	70	7.96	68.0	0.50	550
8.20±10%	80	7.96	53.0	0.6	530
10.00±10%	80	7.96	40.0	0.65	500
12.00±10%	70	7.96	34.0	0.70	480
15.00±10%	70	7.96	20.0	0.75	460
18.00±10%	60	7.96	14.0	0.80	430
22.00±10%	60	7.96	9.9	0.90	410
27.00±10%	50	7.96	7.6	1.00	390
33.00±10%	50	7.96	6.5	1.10	370
39.00±10%	50	7.96	6.5	1.20	350
47.00±10%	45	7.96	6.3	1.30	340
56.00±10%	45	7.96	6.2	1.50	320
68.00±10%	40	7.96	5.7	1.80	305
82.00±10%	35	7.96	5.3	2.00	290
100.00±10%	30	7.96	4.8	2.50	275
120.00±10%	60	7.96	3.8	3.00	185
150.00±10%	60	7.96	3.5	4.00	175
180.00±10%	60	7.96	3.0	4.50	165
220.00±10%	60	7.96	2.8	5.00	155
270.00±10%	60	7.96	2.6	6.00	145
330.00±10%	60	7.96	2.4	6.50	137
390.00±10%	55	7.96	2.0	7.50	133
470.00±10%	50	7.96	1.8	8.50	126
560.00±10%	50	7.96	1.6	9.50	120
680.00±10%	45	7.96	1.6	12.00	113
820.00±10%	45	7.96	1.4	14.00	105
1000.00±10%	40	7.96	1.2	20.00	85