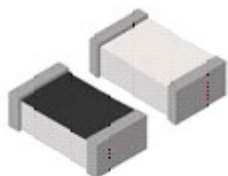


CL MULTILAYER CHIP INDUCTORS



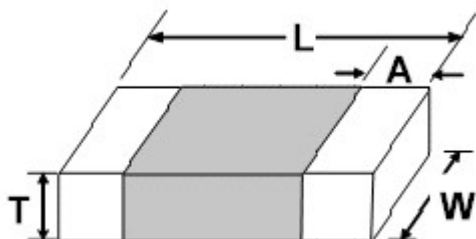
INTRODUCTION

- For High Frequency Application (up to 10GHz)
- Tight Tolerance Physical Dimensions(+/-0.05mm)
- Tight Inductance Tolerance and Excellent Q Value

APPLICATIONS

- high Frequency Application
- cellular Phone, Paggers
- EMI Countermeasure in High Frequency Circuits and Computer Communication etc.

DIMENSIONS



Size	L	W	T	A(min/max)
CL0402	1.0+/-0.10	0.5+/-0.10	0.5+/-0.10	0.1/0.3
CL0603	1.6+/-0.15	0.8+/-0.15	0.8+/-0.15	0.2/0.6
CL0805	2.0+/-0.15	1.2+/-0.20	0.9+/-0.20	0.2/0.8
			1.2+/-0.30	

STANDARD ELECTRICAL SPECIFICATIONS (0402)

Inductance [nH]	Tolerance	Quality Factor /min.	L/Q Freq. [MHz]	Q(Typical) Freq [MHz]			Resistance (DC) [ohms]	Self Res. Freq./min. [Ghz]	Current DC/Max. [mA]
				100	500	800			
1.0	+/-0.3nH	8	100	11	33	37	0.12	10.0	300
1.2				11	29	26	0.12	10.0	
1.5				12	29	40	0.13	6.00	
1.8				11	26	34	0.14	6.00	
2.2				11	26	36	0.16	6.00	
2.7				12	29	38	0.17	6.00	
3.3	+/-0.3nH +/-10%			11	28	37	0.19	6.00	
3.9				11	26	32	0.22	4.00	
4.7				12	28	37	0.24	4.00	
5.6				11	26	35	0.27	4.00	
6.8				11	26	34	0.32	3.90	
8.2				12	26	34	0.37	3.50	
10	+/-5% +/-10%			11	25	31	0.42	3.20	
12				11	25	31	0.50	2.60	
15				11	24	30	0.55	2.30	
18				11	24	30	0.65	2.00	
22				12	24	30	0.80	1.60	
27				11	23	28	0.90	1.40	
33		12	21	26	1.00	1.20	200		
39		11	21	24	1.20	1.10	150		
47		11	21	23	1.30	0.90			
56		12	21	21	2.00	0.75			
68		10	19	19	2.20	0.75	100		
82		10	19	16	2.50	0.60			
100	10	18	-	2.50	0.60				



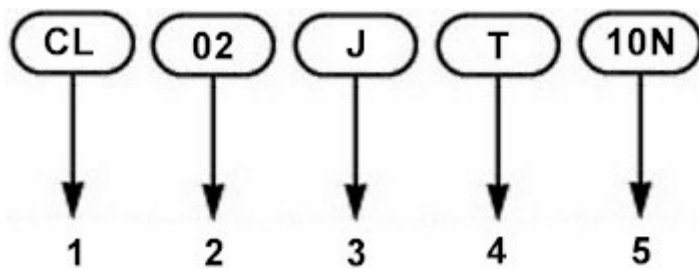
STANDARD ELECTRICAL SPECIFICATIONS (0603)

Inductance [nH]	Tolerance	Quality Factor /min.	L/Q Freq. [MHz]	Q(Typical) Freq [MHz]			Resistance (DC) [ohms]	Self Res. Freq./min. [Ghz]	Current DC/Max. [mA]	
				100	500	800				
1.0	+-0.3nH	8	100	15	36	49	0.10	6.0	500	
1.2		8		15	36	49				
1.5		8		14	34	47				
1.8		8		17	40	55				
2.2		8		15	38	49				
2.7		8		14	37	48				
3.3	+-0.3nH	10		16	40	51	0.13	4.0		
3.9		10		14	36	48	0.15			
4.7		+-10%		10	14	37	48			0.20
5.6		10		14	36	46	0.23			4.0
6.8		10		15	37	48	0.25			3.75
8.2		10		16	39	50	0.28			3.30
10	+-5% +-10%	12		16	37	47	0.30	3.0	300	
12		12		15	36	45	0.35	2.6		
15		12		16	38	48	0.40	2.3		
18		12		17	38	47	0.45	2.0		
22		12		18	40	49	0.50	1.6		
27		12		18	40	47	0.55	1.4		
33		12		17	40	46	0.60	1.2		
39		12		19	40	46	0.65	1.1		
47		12		17	36	39	0.70	0.9		
56		12		18	36	37	0.75	0.9		
68		12		18	35	36	0.85	0.7		
82		12		18	33	29	1.00	0.6		
100		12	18	28	16	1.20	0.6			

STANDARD ELECTRICAL SPECIFICATIONS (0805)

Inductance [nH]	Tolerance	Quality Factor /min.	L/Q Freq. [MHz]	Self Res. Freq./min. [Ghz]	Resistance (DC) [ohms]	Current DC/Max. [mA]	
1.0	+-0.3nH	10	100	>6.00	0.10	300	
1.2							
1.5							
1.8							
2.2							
2.7							
3.3	+-0.3nH	12		0.13			
3.9				+-10%	5.40		0.15
4.7				4.50	0.20		
5.6				4.00	0.23		
6.8				3.65	0.25		
8.2				3.00	0.28		
10	+-5% +-10%	15		2.50	0.30		
12				2.45	0.35		
15				2.00	0.40		
18				1.75	0.45		
22				1.70	0.50		
27				1.55	0.55		
33		1.35		0.60			
39		1.30		0.65			
47		1.20		0.70			
56		1.15		0.75			
68		1.00		0.80			
82		0.85		0.90			
100		0.73	1.00				

ORDERING PROCEDURE EXAMPLE



- 1 Product Type
- 2 Dimensions: 02=0402; 03=0603; 05=0805
- 3 Inductance Tolerance: S=0.3%; J=5%; K=10%
- 4 Packaging: T=Taping Reel
- 5 Inductance: 1N0=1.0nH; 10N=10nH; 20N8=20.8nH; R10=100nH