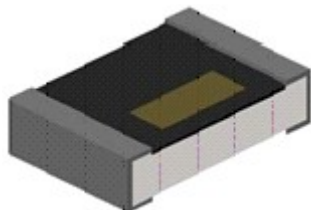


AL THIN FILM CHIP INDUCTORS



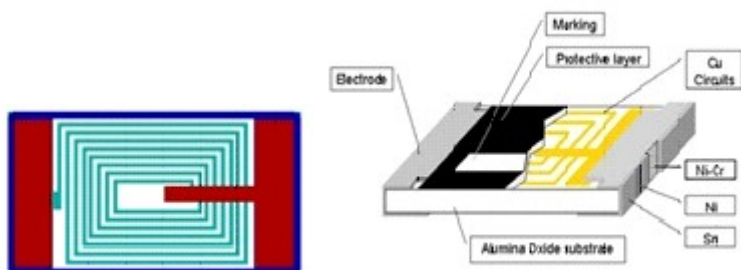
INTRODUCTION

- A Photo Lithographic Single Layer Ceramic Chip
- High SRF, Excellent Q, Superior Temperature Stability
- Tight Tolerance of $\pm 1\%$ or $\pm 0.1\text{nH}$
- Self Resonant Frequency Controlled within 10%
- Stable Inductance in High Frequency Circuits
- Highly Stable Design for Critical Needs

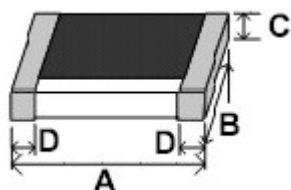
APPLICATIONS

- Cellular Telephones, Pagers and GPS Products
- VCO, TCXO Circuits and RF Transceiver Modules
- Wireless LAN, Bluetooth Modules, Communication Appliances

CONSTRUCTION

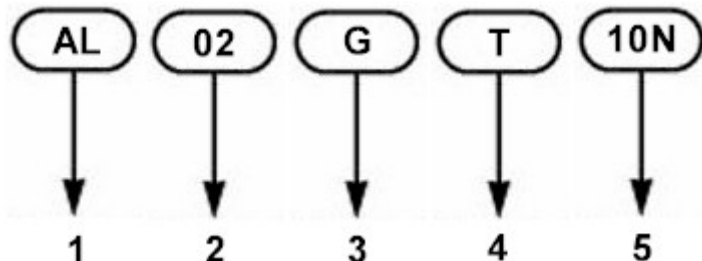


DIMENSIONS



	A	B	C	D
AL01	0.60±0.05	0.30±0.05	0.23±0.05	0.15±0.05
AL02	1.0±0.05	0.5±0.05	0.32±0.05	0.2±0.10
AL03	1.6±0.10	0.8±0.10	0.45±0.10	0.3±0.20

ORDERING PROCEDURE EXAMPLE



- 1 Product Type
- 2 Dimensions: 01=0201; 02=0402; 03=0603
- 3 Inductance Tolerance: J=5%; H=3%; G=2%; F=1%; S=0.3%; C=0.2%; B=0.1%
- 4 Packaging: T=Taping Reel
- 5 Inductance: 1N0=1.0nH; 10N=10nH; 20N8=20.8nH; R10=100nH



STANDARD ELECTRICAL SPECIFICATIONS (0201)

Inductance [nH]	Tolerance [% or nH]	Quality Factor /minimum	Resistance DC/Max. [ohms]	Current DC/max. [mA]	Self Resonant Frequency [GHz]
1.0	0.1/0.2/0.3nH	8 / 500MHz	0.3	300	9
1.1			0.35		
1.2			0.45	250	
1.3					
1.4					
1.5			0.55	200	
1.6					
1.7					
1.8					
1.9			0.7	150	8
2.0					
2.1			0.8	150	
2.2					
2.3					
2.4					
2.5					
2.6					
2.7					
2.8					
2.9			1	150	6
3.0					
3.1	1.2	150			
3.2					
3.3					
3.4					
3.5	1.4	130			
3.6					
3.7					
3.9	1.8	110	4		
4.7					
5.6	2/5%	8 / 500MHz	2.3	110	3
6.8			3.0		
8.2			3.5	80	
10.0					



STANDARD ELECTRICAL SPECIFICATIONS (0402)

Inductance [nH]	Tolerance [% or nH]	Quality Factor /minimum	Resistance DC/Max. [ohms]	Current DC/max. [mA]	Self Resonant Frequency [GHz]
0.2	0.1,0.2,0.3nH	13/500MHz	0.10	800	14
0.4			0.15	700	
0.8					0.25
1.0			0.35	440	
1.1					0.45
1.2			0.55	340	
1.3					0.65
1.4			0.85	280	
1.5					1.05
1.6			1.25	220	
1.7					1.35
1.8			1.55	180	
1.9					1.75
2.0			1.95	100	
2.1					2.15
2.2			2.55	90	
2.3					2.65
2.4			3.25	75	
2.5					4.50
2.6			4.50	75	
2.7					4.50
2.8			4.50	75	
2.9					4.50
3.0			4.50	75	
3.1					4.50
3.2			4.50	75	
3.3					4.50
3.4			4.50	75	
3.5					4.50
3.6			4.50	75	
3.7					4.50
3.8			4.50	75	
3.9					4.50
4.7	4.50	75	2.5		
5.6				4.50	75
5.9	4.50	75	2.5		
6.8				4.50	75
7.2	4.50	75	2.5		
8.0				4.50	75
8.2	4.50	75	2.5		
9.1				4.50	75
10.0	1,2,3,5%	13/500MHz	1.35		
12.0			1,2,3,5%	13/500MHz	1.55
13.8	1,2,3,5%	13/500MHz			1.75
15.0			1,2,3,5%	13/500MHz	1.95
17.0	1,2,3,5%	13/500MHz			2.15
18.0			1,2,3,5%	13/500MHz	2.55
20.8	1,2,3,5%	13/500MHz			2.65
22.0			1,2,3,5%	13/500MHz	3.25
27.0	1,2,3,5%	13/500MHz			4.50
33.0			5%	13/500MHz	4.50



STANDARD ELECTRICAL SPECIFICATIONS (0603)

Inductance [nH]	Tolerance [% or nH]	Quality Factor /minimum	Resistance DC/Max. [ohms]	Current DC/max. [mA]	Self Resonant Frequency [GHz]		
1.0	0.1,0.2,0.3nH	13/500MHz	0.35	800	13		
1.2					10		
1.5				8			
1.8				6			
2.2			1,2,3,5%	13/500MHz	0.45	300	5
2.7							4
3.3							3
3.9							2
4.7							1.5
5.6							1
6.8	250	13/500MHz			0.95	200	4
8.2							3
10							2
12							1.5
15	1,2,3,5%	13/500MHz	1.05	150	3		
18					2		
22					1.5		
27			100	13/500MHz	2.35	100	2
33							1.5
39							1
47	1,2,3,5%	13/500MHz	3.00	200	1.5		
56					1		
68					1		
100	1,2,3,5%	13/500MHz	7.50	100	1		
100					1		