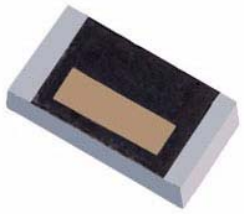
Features:

- A photo lithographic single layer ceramic chip
- Provides high SRF, excellent Q, superior temperature stability
- SRF controlled within 10%
- Stable inductance in high frequency circuits
- Highly stable design for critical needs
- Tight tolerances of ±1% down to ±0.1nH available
- For inductance values outside those listed in the datasheet, contact factory
- Find frequency curves, environmental and packaging specifications in relevant supplemental documents



Applications:

- Cellular phones
- Pagers
- GPS receiver
- Bluetooth module
- VCO and TCXO circuits
- RF transceiver modules
- Wireless LAN
- Communication appliances

Inductance and Current Ranges:

AL01	1 – 10 nH	300 – 80 mA
AL02	0.2 – 33 nH	800 – 75 mA
AL02	1 – 100 nH	800 – 100 mA

New Part Number Format:

How to Order

1	2	3	4	5	6	7	8	9	10	11	12
A	L	0	4	0	2	G	T	1	0	N	0

Product Series	
AL	Thin Film

Code	Size
0201	01
0402	02
0603	03

Tolerance	
Code	Tol
B	0.1%
C	0.25%
S	0.3%
F	1%
G	2%
H	3%
J	5%

Code	Description	Size	Quantity
T	Tape & Reel	0201, 0402	10,000
		0603	5,000

Inductance	
Code	Inductance
0N20	0.2 nH
1N00	1 nH
10N0	10 nH
20N8	20.8 nH
R100	100 nH

Inductance Value
Four characters with the multiplier used as the decimal holder.

Legacy Part Number (before January 3, 2011):

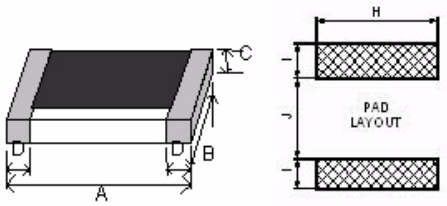
SEI Type	Dimensions	Tolerance	Packaging	Inductance
AL	02	G	T	10N

Type	Description
AL	Thin Film

Code	EIA
01	0201
02	0402
03	0603

Code	Tolerance
B	±0.1 nH
C	±0.2 nH
S	±0.3 nH
F	±1%
G	±2%
H	±3%
J	±5%

Code	Inductance
0N2	0.2 nH
1N0	1 nH
10N	10 nH
20N8	20.8 nH
R10	100 nH



Mechanical Specifications - Standard								
Type / Code	A	B	C	D	H	I	J	Units
AL01	0.024 ± 0.002 0.60 ± 0.05	0.012 ± 0.002 0.30 ± 0.05	0.009 ± 0.002 0.23 ± 0.05	0.006 ± 0.002 0.15 ± 0.05	0.02 0.5	0.016 0.4	0.008 0.2	inches mm
AL02	0.039 ± 0.002 1.00 ± 0.05	0.020 ± 0.002 0.50 ± 0.05	0.013 ± 0.002 0.32 ± 0.05	0.008 ± 0.004 0.20 ± 0.10	0.026 0.66	0.02 0.5	0.018 0.46	inches mm
AL03	0.063 ± 0.004 1.60 ± 0.10	0.032 ± 0.004 0.80 ± 0.10	0.018 ± 0.004 0.45 ± 0.10	0.012 ± 0.008 0.30 ± 0.20	0.04 1.02	0.025 0.64	0.025 0.64	inches mm

Electrical Characteristics – AL01							
Part Number	**L (nH)**	**Q Factor /Min**	**Test Freq (MHz)**	**Tolerance (% or nH)**	**SRF (GHz)**	**DCR (Ω) Max**	**I DC (mA) Max**
AL01-T1N0	1.0	8	500	0.1nH, 0.2nH	9	0.30	300
AL01-T1N1	1.1	8	500	0.1nH, 0.2nH	9	0.35	300
AL01-T1N2	1.2	8	500	0.1nH, 0.2nH	9	0.35	300
AL01-T1N3	1.3	8	500	0.1nH, 0.2nH	9	0.45	250
AL01-T1N4	1.4	8	500	0.1nH, 0.2nH	9	0.45	250
AL01-T1N5	1.5	8	500	0.1nH, 0.2nH	9	0.45	250
AL01-T1N6	1.6	8	500	0.1nH, 0.2nH	9	0.55	200
AL01-T1N7	1.7	8	500	0.1nH, 0.2nH	9	0.55	200
AL01-T1N8	1.8	8	500	0.1nH, 0.2nH	9	0.55	200
AL01-T1N9	1.9	8	500	0.1nH, 0.2nH	9	0.55	200
AL01-T2N0	2.0	8	500	0.1nH, 0.2nH	8	0.70	200
AL01-T2N1	2.1	8	500	0.1nH, 0.2nH	8	0.70	200
AL01-T2N2	2.2	8	500	0.1nH, 0.2nH	8	0.70	200
AL01-T2N3	2.3	8	500	0.1nH, 0.2nH	8	0.80	150
AL01-T2N4	2.4	8	500	0.1nH, 0.2nH	8	0.80	150
AL01-T2N5	2.5	8	500	0.1nH, 0.2nH	8	0.80	150
AL01-T2N6	2.6	8	500	0.1nH, 0.2nH	8	0.80	150
AL01-T2N7	2.7	8	500	0.1nH, 0.2nH	8	0.80	150
AL01-T2N8	2.8	8	500	0.1nH, 0.2nH	6	1.00	150
AL01-T2N9	2.9	8	500	0.1nH, 0.2nH	6	1.00	150
AL01-T3N0	3.0	8	500	0.1nH, 0.2nH	6	1.00	150
AL01-T3N1	3.1	8	500	0.1nH, 0.2nH	6	1.00	150
AL01-T3N2	3.2	8	500	0.1nH, 0.2nH	6	1.00	150
AL01-T3N3	3.3	8	500	0.1nH, 0.2nH	6	1.00	150
AL01-T3N4	3.4	8	500	0.1nH, 0.2nH	6	1.20	150
AL01-T3N5	3.5	8	500	0.1nH, 0.2nH	6	1.20	150
AL01-T3N6	3.6	8	500	0.1nH, 0.2nH	6	1.20	150
AL01-T3N7	3.7	8	500	0.1nH, 0.2nH	6	1.20	150
AL01-T3N9	3.9	8	500	0.1nH, 0.2nH	6	1.20	150
AL01-T4N7	4.7	8	500	0.1nH, 0.2nH	6	1.40	130
AL01-T5N6	5.6	8	500	2%, 5%	4	1.80	130
AL01-T6N8	6.8	8	500	2%, 5%	4	2.30	110
AL01-T8N2	8.2	8	500	2%, 5%	3	3.00	110
AL01-T10N	10.0	8	500	2%, 5%	2	3.50	80

Electrical Characteristics – AL02							
Part Number	**L (nH)**	**Q Factor /Min**	**Test Freq (MHz)**	**Tolerance (% or nH)**	**SRF (GHz)**	**DCR (Ω) Max**	**I DC (mA) Max**
AL02-T0N2	0.2	13	500	0.1nH, 0.2nH, 0.3nH	14.0	0.10	800
AL02-T0N4	0.4	13	500	0.1nH, 0.2nH, 0.3nH	14.0	0.10	800
AL02-T0N8	0.8	13	500	0.1nH, 0.2nH, 0.3nH	14.0	0.15	700
AL02-T1N0	1.0	13	500	0.1nH, 0.2nH, 0.3nH	12.0	0.15	700
AL02-T1N1	1.1	13	500	0.1nH, 0.2nH, 0.3nH	12.0	0.15	700
AL02-T1N2	1.2	13	500	0.1nH, 0.2nH, 0.3nH	12.0	0.15	700
AL02-T1N3	1.3	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.25	700
AL02-T1N4	1.4	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.25	700
AL02-T1N5	1.5	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.25	700
AL02-T1N6	1.6	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.25	560
AL02-T1N7	1.7	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.25	560
AL02-T1N8	1.8	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.25	560
AL02-T1N9	1.9	13	500	0.1nH, 0.2nH, 0.3nH	10.0	0.35	560
AL02-T2N0	2.0	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	560
AL02-T2N1	2.1	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N2	2.2	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N3	2.3	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N4	2.4	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N5	2.5	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N6	2.6	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N7	2.7	13	500	0.1nH, 0.2nH, 0.3nH	8.0	0.35	440
AL02-T2N8	2.8	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.45	380
AL02-T2N9	2.9	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.45	380
AL02-T3N0	3.0	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.45	380
AL02-T3N1	3.1	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.45	380
AL02-T3N2	3.2	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.45	380
AL02-T3N3	3.3	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.45	380
AL02-T3N4	3.4	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.55	380
AL02-T3N5	3.5	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.55	380
AL02-T3N6	3.6	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.55	380
AL02-T3N7	3.7	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.55	340
AL02-T3N8	3.8	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.55	340
AL02-T3N9	3.9	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.55	340
AL02-T4N7	4.7	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.65	320
AL02-T5N6	5.6	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.85	280
AL02-T5N9	5.9	13	500	0.1nH, 0.2nH, 0.3nH	6.0	0.85	280
AL02-T6N8	6.8	13	500	0.1nH, 0.2nH, 0.3nH	6.0	1.05	260
AL02-T7N2	7.2	13	500	0.1nH, 0.2nH, 0.3nH	6.0	1.05	260
AL02-T8N0	8.0	13	500	0.1nH, 0.2nH, 0.3nH	5.5	1.25	220
AL02-T8N2	8.2	13	500	0.1nH, 0.2nH, 0.3nH	5.5	1.25	220
AL02-T9N1	9.1	13	500	0.1nH, 0.2nH, 0.3nH	5.5	1.25	220
AL02-T10N	10.0	13	500	1%, 2%, 3%, 5%	4.5	1.35	200
AL02-T12N	12.0	13	500	1%, 2%, 3%, 5%	3.7	1.55	180
AL02-T13N8	13.8	13	500	1%, 2%, 3%, 5%	3.7	1.75	180
AL02-T15N	15.0	13	500	1%, 2%, 3%, 5%	3.3	1.75	130
AL02-T17N	17.0	13	500	1%, 2%, 3%, 5%	3.1	1.95	100
AL02-T18N	18.0	13	500	1%, 2%, 3%, 5%	3.1	2.15	100
AL02-T20N8	20.8	13	500	1%, 2%, 3%, 5%	2.8	2.55	90
AL02-T22N	22.0	13	500	1%, 2%, 3%, 5%	2.8	2.65	90
AL02-T27N	27.0	13	500	1%, 2%, 3%, 5%	2.5	3.25	75
AL02-T33N	33.0	13	500	5%	2.5	4.50	75

Electrical Characteristics – AL03							
Part Number	**L (nH)**	**Q Factor /Min**	**Test Freq (MHz)**	**Tolerance (% or nH)**	**SRF (GHz)**	**DCR (Ω) Max**	**I DC (mA) Max**
AL03-T1N0	1.0	15	300	0.1nH, 0.2nH	13.0	0.35	800
AL03-T1N2	1.2	15	300	0.1nH, 0.2nH	13.0	0.35	800
AL03-T1N5	1.5	15	300	0.1nH, 0.2nH	10.0	0.35	800
AL03-T1N8	1.8	15	300	0.1nH, 0.2nH	10.0	0.35	300
AL03-T2N2	2.2	15	300	0.1nH, 0.2nH	8.0	0.35	300
AL03-T2N7	2.7	15	300	0.1nH, 0.2nH	6.0	0.45	300
AL03-T3N3	3.3	15	300	0.1nH, 0.2nH	6.0	0.45	300
AL03-T3N9	3.9	15	300	0.1nH, 0.2nH	6.0	0.45	300
AL03-T4N7	4.7	15	300	0.1nH, 0.2nH	5.0	0.55	300
AL03-T5N6	5.6	15	300	0.1nH, 0.2nH	5.0	0.65	300
AL03-T6N8	6.8	15	300	0.1nH, 0.2nH	5.0	0.75	300
AL03-T8N2	8.2	15	300	0.1nH, 0.2nH	4.0	0.95	300
AL03-T10N	10.0	15	300	1%, 2%, 3%, 5%	4.0	0.95	300
AL03-T12N	12.0	15	300	1%, 2%, 3%, 5%	3.0	1.05	300
AL03-T15N	15.0	15	300	1%, 2%, 3%, 5%	3.0	1.35	300
AL03-T18N	18.0	15	300	1%, 2%, 3%, 5%	2.0	1.65	300
AL03-T22N	22.0	15	300	1%, 2%, 3%, 5%	2.0	1.95	250
AL03-T27N	27.0	15	300	1%, 2%, 3%, 5%	2.0	2.35	250
AL03-T33N	33.0	15	300	1%, 2%, 3%, 5%	1.5	2.75	250
AL03-T39N	39.0	15	300	1%, 2%, 3%, 5%	1.5	3.00	200
AL03-T47N	47.0	15	300	1%, 2%, 3%, 5%	1.5	3.00	200
AL03-T56N	56.0	15	300	1%, 2%, 3%, 5%	1.0	5.00	150
AL03-T68N	68.0	15	300	1%, 2%, 3%, 5%	1.0	5.00	150
AL03-TR10	100.0	15	300	2%, 3%, 5%	1.0	7.50	100