

Data Sheet

Customer : _____

Product : Thin Film Chip Inductor – SAL Series _____

Size : 0201/0402 _____

Issued Date : 01-Jul.-2026 _____

Edition : Ver. 1 _____

Record of change

Date	Ver.	Description	Page
01-Jul.-2026	1		

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01-Jul.-2026	01-Jul.-2026	01-Jul.-2026	
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Thin Film Chip Inductor

Scope

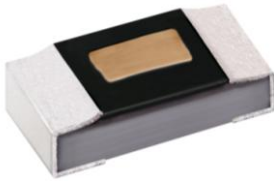
– Viking's 0201 and 0402 series inductor is a photo lithographically etched single layer ceramic chip. Viking's design provides high SRF, excellent Q, and superior temperature stability. This highly stable inductor family is specifically designed for critical tolerance needs.

Features

- Photolithographic single layer ceramic chip
- High SRF, excellent Q, superior temperature stability
- Tight tolerance of $\pm 1\%$ or $\pm 0.1nH$
- Self resonant frequency controlled within 10%
- Stable inductance in high frequency circuit
- Highly stable design for critical needs

Applications

- Cellular Telephone, Pagers and GPS Products
- VCO, TCXO Circuit and RF Transceiver Module
- Wireless LAN, Bluetooth Module, Communication Appliances



Construction

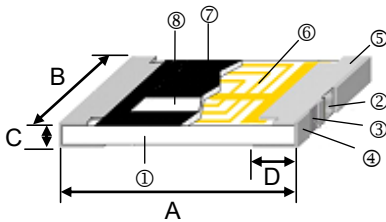


Figure1

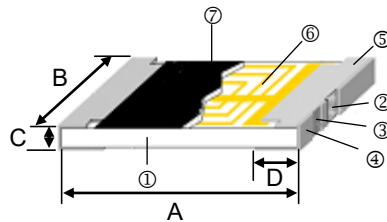
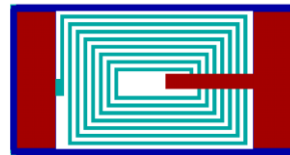


Figure2



① Alumina Substrate	④ External Electrode	⑦ Overcoat
② Inner Electrode	⑤ Edge Electrode	⑧ Marking
③ Barrier Layer	⑥ Cu Circuits	

Dimensions

Unit: mm

Size	Figure	A	B	C	D	Weight (g) (1000pcs)
SAL0201	Figure2	0.60±0.05	0.30±0.05	0.23±0.05	0.15±0.05	0.23
SAL0402	Figure1	1.0±0.05	0.5±0.05	0.32±0.05	0.2±0.10	0.9

Part Numbering

<u>SAL</u>	<u>0201</u>	<u>C</u>	<u>I</u>	<u>10N</u>	<u>G</u>	<u>□□</u>
SERIES	SIZE	TYPE	PACKAGE	INDUCTANCE	TOLERANCE	INTERNAL CODE
	0201	C = Standard	T = Tape&Reel	1N0 = 1nH	B = ±0.1nH	
	0402	H = High Current		10N = 10nH	C = ±0.2nH	
		Q = High Q		20N8 = 20.8nH	S = ±0.3nH	
					F = ±1%	
					G = ±2%	
					H = ±3%	
					J = ±5%	

THIN FILM CHIP INDUCTOR

SAL SERIES

Electrical Specifications

Size 0201 Chip Inductors / Standard Type

Part No.	Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
SAL0201CT0N1□□□	0.1	±0.1nH	8 / 500MHz	9	0.20	400
SAL0201CT0N2□□□	0.2	±0.1nH,±0.2nH	8 / 500MHz	9	0.20	400
SAL0201CT0N3□□□	0.3	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.20	400
SAL0201CT0N4□□□	0.4	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.25	350
SAL0201CT0N5□□□	0.5	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.25	350
SAL0201CT0N6□□□	0.6	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.25	350
SAL0201CT0N7□□□	0.7	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.30	300
SAL0201CT0N8□□□	0.8	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.30	300
SAL0201CT0N9□□□	0.9	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.30	300
SAL0201CT1N0□□□	1.0	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.30	300
SAL0201CT1N0□□□	1.1	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.35	300
SAL0201CT1N2□□□	1.2	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.35	300
SAL0201CT1N3□□□	1.3	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.45	250
SAL0201CT1N4□□□	1.4	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.45	250
SAL0201CT1N5□□□	1.5	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.45	250
SAL0201CT1N6□□□	1.6	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.55	200
SAL0201CT1N7□□□	1.7	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.55	200
SAL0201CT1N8□□□	1.8	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.55	200
SAL0201CT1N9□□□	1.9	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	9	0.55	200
SAL0201CT2N0□□□	2.0	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.70	200
SAL0201CT2N2□□□	2.1	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.70	200
SAL0201CT2N2□□□	2.2	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.70	200
SAL0201CT2N3□□□	2.3	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.80	150
SAL0201CT2N4□□□	2.4	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.80	150
SAL0201CT2N5□□□	2.5	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.80	150
SAL0201CT2N6□□□	2.6	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.80	150
SAL0201CT2N7□□□	2.7	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	8	0.80	150
SAL0201CT2N8□□□	2.8	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.00	150
SAL0201CT2N9□□□	2.9	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.00	150
SAL0201CT3N0□□□	3.0	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.00	150
SAL0201CT3N1□□□	3.1	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.00	150
SAL0201CT3N2□□□	3.2	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.00	150
SAL0201CT3N3□□□	3.3	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.00	150
SAL0201CT3N4□□□	3.4	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT3N5□□□	3.5	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT3N6□□□	3.6	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT3N7□□□	3.7	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT3N8□□□	3.8	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT3N9□□□	3.9	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT4N0□□□	4.0	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.20	150
SAL0201CT4N4□□□	4.4	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.30	140
SAL0201CT4N7□□□	4.7	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.40	130
SAL0201CT4N9□□□	4.9	±0.1nH,±0.2nH,±0.3nH	8 / 500MHz	6	1.60	130
SAL0201CT5N6□□□	5.6	±2%,±3%,±5%	8 / 500MHz	4	1.80	130
SAL0201CT6N1□□□	6.1	±2%,±3%,±5%	8 / 500MHz	4	2.00	120
SAL0201CT6N8□□□	6.8	±2%,±3%,±5%	8 / 500MHz	4	2.30	110
SAL0201CT7N4□□□	7.4	±2%,±3%,±5%	8 / 500MHz	4	2.80	110
SAL0201CT8N2□□□	8.2	±2%,±3%,±5%	8 / 500MHz	3	3.00	110
SAL0201CT9N1□□□	9.1	±2%,±3%,±5%	8 / 500MHz	3	3.25	100
SAL0201CT9N2□□□	9.2	±2%,±3%,±5%	8 / 500MHz	3	3.25	100
SAL0201CT10N□□□	10	±2%,±3%,±5%	8 / 500MHz	2	3.50	80

Operating Temperature Range: -55°C to +125°C

Test Equipment: HP4287A+Agilent 16196C

THIN FILM CHIP INDUCTOR

SAL SERIES

Electrical Specifications

Size 0201 Chip Inductors / High Current Type

Part No.	Inductance (nH)	Inductance Tolerance (nH or %)	Quality Fact min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
SAL0201HT0N1□□□	0.1	±0.1nH	10 / 500MHz	6	0.05	600
SAL0201HT0N2□□□	0.2	±0.1nH,±0.2nH	10 / 500MHz	6	0.05	600
SAL0201HT0N3□□□	0.3	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.05	600
SAL0201HT0N4□□□	0.4	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.05	600
SAL0201HT0N5□□□	0.5	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.10	600
SAL0201HT0N6□□□	0.6	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.10	600
SAL0201HT0N7□□□	0.7	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.10	600
SAL0201HT0N8□□□	0.8	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.10	600
SAL0201HT0N9□□□	0.9	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.10	600
SAL0201HT1N0□□□	1.0	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.15	600
SAL0201HT1N1□□□	1.1	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.15	600
SAL0201HT1N2□□□	1.2	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.15	600
SAL0201HT1N3□□□	1.3	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.20	600
SAL0201HT1N4□□□	1.4	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.20	600
SAL0201HT1N5□□□	1.5	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.25	600
SAL0201HT1N6□□□	1.6	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.25	600
SAL0201HT1N7□□□	1.7	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.30	500
SAL0201HT1N8□□□	1.8	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.30	500
SAL0201HT1N9□□□	1.9	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.30	500
SAL0201HT2N0□□□	2.0	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.30	500
SAL0201HT2N1□□□	2.1	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.30	500
SAL0201HT2N2□□□	2.2	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.35	500
SAL0201HT2N3□□□	2.3	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.35	500
SAL0201HT2N4□□□	2.4	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.35	450
SAL0201HT2N5□□□	2.5	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.35	450
SAL0201HT2N6□□□	2.6	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.35	450
SAL0201HT2N7□□□	2.7	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.35	450
SAL0201HT2N8□□□	2.8	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.50	450
SAL0201HT2N9□□□	2.9	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.50	450
SAL0201HT3N0□□□	3.0	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.50	400
SAL0201HT3N1□□□	3.1	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.50	400
SAL0201HT3N2□□□	3.2	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.50	400
SAL0201HT3N3□□□	3.3	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.50	400
SAL0201HT3N4□□□	3.4	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.80	350
SAL0201HT3N5□□□	3.5	±0.1nH,±0.2nH,±0.3nH	10 / 500MHz	6	0.80	350
SAL0201HT3N6□□□	3.6	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.80	350
SAL0201HT3N7□□□	3.7	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.80	350
SAL0201HT3N8□□□	3.8	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.80	350
SAL0201HT3N9□□□	3.9	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.80	350
SAL0201HT4N2□□□	4.0	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.80	350
SAL0201HT4N4□□□	4.4	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.50	300
SAL0201HT4N7□□□	4.7	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.50	300
SAL0201HT4N9□□□	4.9	±0.1nH,±0.2nH,±0.3nH/±3%,±5%	10 / 500MHz	6	0.60	300
SAL0201HT5N6□□□	5.6	±2%,±3%,±5%	10 / 500MHz	6	0.60	250
SAL0201HT6N1□□□	6.1	±2%,±3%,±5%	10 / 500MHz	5.5	0.70	250
SAL0201HT6N8□□□	6.8	±2%,±3%,±5%	10 / 500MHz	5	0.75	250
SAL0201HT7N4□□□	7.4	±2%,±3%,±5%	10 / 500MHz	5	0.80	200
SAL0201HT8N2□□□	8.2	±2%,±3%,±5%	10 / 500MHz	4.5	0.90	200
SAL0201HT9N1□□□	9.1	±2%,±3%,±5%	10 / 500MHz	4	1.05	175
SAL0201HT9N2□□□	9.2	±2%,±3%,±5%	10 / 500MHz	4	1.15	150
SAL0201HT10N□□□	10	±2%,±3%,±5%	10 / 500MHz	3.5	1.30	150

Operating Temperature Range: -55°C to +125°C

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THIN FILM CHIP INDUCTOR

SAL SERIES

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Part No.	Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
SAL0201QT0N1000	0.1	± 0.1 nH	14 / 500MHz	10	0.05	850
SAL0201QT0N2000	0.2	± 0.1 nH, ± 0.2 nH	14 / 500MHz	10	0.05	800
SAL0201QT0N3000	0.3	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	10	0.05	800
SAL0201QT0N4000	0.4	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	10	0.05	750
SAL0201QT0N5000	0.5	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	10	0.10	750
SAL0201QT0N6000	0.6	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	9	0.10	750
SAL0201QT0N7000	0.7	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	9	0.10	600
SAL0201QT0N8000	0.8	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	9	0.10	600
SAL0201QT0N9000	0.9	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	9	0.10	600
SAL0201QT1N0000	1.0	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	9	0.15	600
SAL0201QT1N1000	1.1	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.15	600
SAL0201QT1N2000	1.2	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.15	600
SAL0201QT1N3000	1.3	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.15	600
SAL0201QT1N4000	1.4	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.15	600
SAL0201QT1N5000	1.5	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.15	600
SAL0201QT1N6000	1.6	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.15	600
SAL0201QT1N7000	1.7	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.2	500
SAL0201QT1N8000	1.8	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.2	500
SAL0201QT1N9000	1.9	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.2	500
SAL0201QT2N0000	2.0	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	8	0.2	500
SAL0201QT2N1000	2.1	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.2	500
SAL0201QT2N2000	2.2	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.2	500
SAL0201QT2N3000	2.3	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.2	500
SAL0201QT2N4000	2.4	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.25	450
SAL0201QT2N5000	2.5	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.25	450
SAL0201QT2N6000	2.6	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.25	450
SAL0201QT2N7000	2.7	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.25	450
SAL0201QT2N8000	2.8	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.25	450
SAL0201QT2N9000	2.9	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.25	450
SAL0201QT3N0000	3.0	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7.5	0.3	400
SAL0201QT3N1000	3.1	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.3	400
SAL0201QT3N2000	3.2	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.3	400
SAL0201QT3N3000	3.3	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.3	400
SAL0201QT3N4000	3.4	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.4	350
SAL0201QT3N5000	3.5	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.4	350
SAL0201QT3N6000	3.6	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.4	350
SAL0201QT3N7000	3.7	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	7	0.4	350
SAL0201QT3N8000	3.8	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	6.5	0.4	350
SAL0201QT3N9000	3.9	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	6.5	0.4	350
SAL0201QT4N0000	4.0	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	6.5	0.4	350
SAL0201QT4N4000	4.4	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	6.5	0.5	300
SAL0201QT4N7000	4.7	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	6	0.5	300
SAL0201QT4N9000	4.9	± 0.1 nH, ± 0.2 nH, ± 0.3 nH	14 / 500MHz	6	0.6	300
SAL0201QT5N6000	5.6	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	6	0.6	250
SAL0201QT6N1000	6.1	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	5.5	0.7	250
SAL0201QT6N8000	6.8	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	5	0.75	250
SAL0201QT7N4000	7.4	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	5	0.8	200
SAL0201QT8N2000	8.2	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	4.5	0.9	200
SAL0201QT9N1000	9.1	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	4	1.05	175
SAL0201QT9N2000	9.2	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	4	1.15	150
SAL0201QT10N000	10	$\pm 2\%$, $\pm 5\%$	14 / 500MHz	3.5	1.3	150

Operating Temperature Range: -55°C to +125°C

Test Equipment: HP4287A+Agilent 16196B

Electrical Specifications

Size 0402 Chip Inductors / Standard Type

Part No.	Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
SAL0402CT0N2□□□	0.2	±0.1nH,±0.2nH	13 / 500MHz	14	0.10	800
SAL0402CT0N3□□□	0.3	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	14	0.10	800
SAL0402CT0N4□□□	0.4	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	14	0.10	800
SAL0402CT0N5□□□	0.5	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	14	0.15	700
SAL0402CT0N6□□□	0.6	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	14	0.15	700
SAL0402CT0N8□□□	0.8	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	14	0.15	700
SAL0402CT0N9□□□	0.9	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	14	0.15	700
SAL0402CT1N0□□□	1.0	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	12	0.15	700
SAL0402CT1N1□□□	1.1	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	12	0.15	700
SAL0402CT1N2□□□	1.2	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	12	0.15	700
SAL0402CT1N3□□□	1.3	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	10	0.25	700
SAL0402CT1N4□□□	1.4	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	10	0.25	700
SAL0402CT1N5□□□	1.5	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	10	0.25	700
SAL0402CT1N6□□□	1.6	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	10	0.25	560
SAL0402CT1N7□□□	1.7	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	10	0.25	560
SAL0402CT1N8□□□	1.8	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	10	0.25	560
SAL0402CT1N9□□□	1.9	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	560
SAL0402CT2N0□□□	2.0	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	560
SAL0402CT2N1□□□	2.1	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N2□□□	2.2	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N3□□□	2.3	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N4□□□	2.4	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N5□□□	2.5	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N6□□□	2.6	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N7□□□	2.7	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	8	0.35	440
SAL0402CT2N8□□□	2.8	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.45	380
SAL0402CT2N9□□□	2.9	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.45	380
SAL0402CT3N0□□□	3.0	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.45	380
SAL0402CT3N1□□□	3.1	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.45	380
SAL0402CT3N2□□□	3.2	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.45	380
SAL0402CT3N3□□□	3.3	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.45	380
SAL0402CT3N4□□□	3.4	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.55	380
SAL0402CT3N5□□□	3.5	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.55	380
SAL0402CT3N6□□□	3.6	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.55	380
SAL0402CT3N7□□□	3.7	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.55	340
SAL0402CT3N8□□□	3.8	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.55	340
SAL0402CT3N9□□□	3.9	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.55	340
SAL0402CT4N3□□□	4.3	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.65	320
SAL0402CT4N7□□□	4.7	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.65	320
SAL0402CT5N4□□□	5.4	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.85	280
SAL0402CT5N6□□□	5.6	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.85	280
SAL0402CT5N9□□□	5.9	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	0.85	280
SAL0402CT6N5□□□	6.5	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	1.05	260
SAL0402CT6N8□□□	6.8	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	1.05	260
SAL0402CT7N2□□□	7.2	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	6	1.05	260
SAL0402CT8N0□□□	8.0	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	5.5	1.25	220
SAL0402CT7N2□□□	8.1	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	5.5	1.25	220
SAL0402CT8N2□□□	8.2	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	5.5	1.25	220
SAL0402CT9N1□□□	9.1	±0.1nH,±0.2nH,±0.3nH	13 / 500MHz	5.5	1.25	220
SAL0402CT10N□□□	10.0	±1%,±2%,±3%,±5%	13 / 500MHz	4.5	1.35	200
SAL0402CT10N8□□□	10.8	±1%,±2%,±3%,±5%	13 / 500MHz	4.5	1.35	200
SAL0402CT12N□□□	12.0	±1%,±2%,±3%,±5%	13 / 500MHz	3.7	1.55	180
SAL0402CT13N8□□□	13.8	±1%,±2%,±3%,±5%	13 / 500MHz	3.7	1.75	180
SAL0402CT15N□□□	15.0	±1%,±2%,±3%,±5%	13 / 500MHz	3.3	1.75	130
SAL0402CT17N□□□	17.0	±1%,±2%,±3%,±5%	13 / 500MHz	3.1	1.95	100
SAL0402CT18N□□□	18.0	±1%,±2%,±3%,±5%	13 / 500MHz	3.1	2.15	100
SAL0402CT20N8□□□	20.8	±1%,±2%,±3%,±5%	13 / 500MHz	2.8	2.55	90
SAL0402CT22N□□□	22.0	±1%,±2%,±3%,±5%	13 / 500MHz	2.8	2.65	90
SAL0402CT27N□□□	27.0	±1%,±2%,±3%,±5%	13 / 500MHz	2.5	3.25	75
SAL0402CT33N□□□	33.0	±5%	13 / 500MHz	2.5	4.50	75

Operating Temperature Range: -55°C to +125°C

Test Equipment: HP4287A+Agilent 16196B

THIN FILM CHIP INDUCTOR

SAL SERIES

■Electrical Specifications

Size 0402 Chip Inductors / High Q Type

Part No.	Inductance (nH)	Inductance Tolerance (nH or %)	Quality Factor min.	SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
$\pm 0.1, 0.2$ nH	0.2	$\pm 0.1, 0.2$ nH	16 / 500MHz	14	0.1	1000
$\pm 0.1, 0.2, 0.3$ nH	0.3	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.1	1000
$\pm 0.1, 0.2, 0.3$ nH	0.4	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.1	1000
$\pm 0.1, 0.2, 0.3$ nH	0.5	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	0.6	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	0.7	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	0.8	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	0.9	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	14	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	1.0	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	12	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	1.1	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	12	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	1.2	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	12	0.12	850
$\pm 0.1, 0.2, 0.3$ nH	1.3	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	10	0.2	850
$\pm 0.1, 0.2, 0.3$ nH	1.4	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	10	0.2	850
$\pm 0.1, 0.2, 0.3$ nH	1.5	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	10	0.2	850
$\pm 0.1, 0.2, 0.3$ nH	1.6	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	10	0.2	675
$\pm 0.1, 0.2, 0.3$ nH	1.7	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	10	0.2	675
$\pm 0.1, 0.2, 0.3$ nH	1.8	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	10	0.2	675
$\pm 0.1, 0.2, 0.3$ nH	1.9	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	675
$\pm 0.1, 0.2, 0.3$ nH	2.0	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	675
$\pm 0.1, 0.2, 0.3$ nH	2.1	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.2	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.3	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.4	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.5	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.6	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.7	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	8	0.28	530
$\pm 0.1, 0.2, 0.3$ nH	2.8	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.35	460
$\pm 0.1, 0.2, 0.3$ nH	2.9	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.35	460
$\pm 0.1, 0.2, 0.3$ nH	3.0	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.35	460
$\pm 0.1, 0.2, 0.3$ nH	3.1	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.35	460
$\pm 0.1, 0.2, 0.3$ nH	3.2	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.35	460
$\pm 0.1, 0.2, 0.3$ nH	3.3	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.35	460
$\pm 0.1, 0.2, 0.3$ nH	3.4	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.45	460
$\pm 0.1, 0.2, 0.3$ nH	3.5	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.45	460
$\pm 0.1, 0.2, 0.3$ nH	3.6	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.45	460
$\pm 0.1, 0.2, 0.3$ nH	3.7	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.45	410
$\pm 0.1, 0.2, 0.3$ nH	3.8	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.45	410
$\pm 0.1, 0.2, 0.3$ nH	3.9	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.45	410
$\pm 0.1, 0.2, 0.3$ nH	4.3	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.55	350
$\pm 0.1, 0.2, 0.3$ nH	4.7	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.55	350
$\pm 0.1, 0.2, 0.3$ nH	5.4	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.7	310
$\pm 0.1, 0.2, 0.3$ nH	5.6	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.7	310
$\pm 0.1, 0.2, 0.3$ nH	5.9	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.7	310
$\pm 0.1, 0.2, 0.3$ nH	6.5	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.9	290
$\pm 0.1, 0.2, 0.3$ nH	6.8	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.9	290
$\pm 0.1, 0.2, 0.3$ nH	7.2	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	6	0.9	290
$\pm 0.1, 0.2, 0.3$ nH	8.0	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	5.5	1.0	245
$\pm 0.1, 0.2, 0.3$ nH	8.1	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	5.5	1.0	245
$\pm 0.1, 0.2, 0.3$ nH	8.2	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	5.5	1.0	245
$\pm 0.1, 0.2, 0.3$ nH	9.1	$\pm 0.1, 0.2, 0.3$ nH	16 / 500MHz	5.5	1.0	245
$\pm 1, 2, 3, 5\%$	10	$\pm 1, 2, 3, 5\%$	16 / 500MHz	4.5	1.1	220

Operating Temperature Range: -55°C to +125°C

Test Equipment: HP4287A+Agilent 16196B

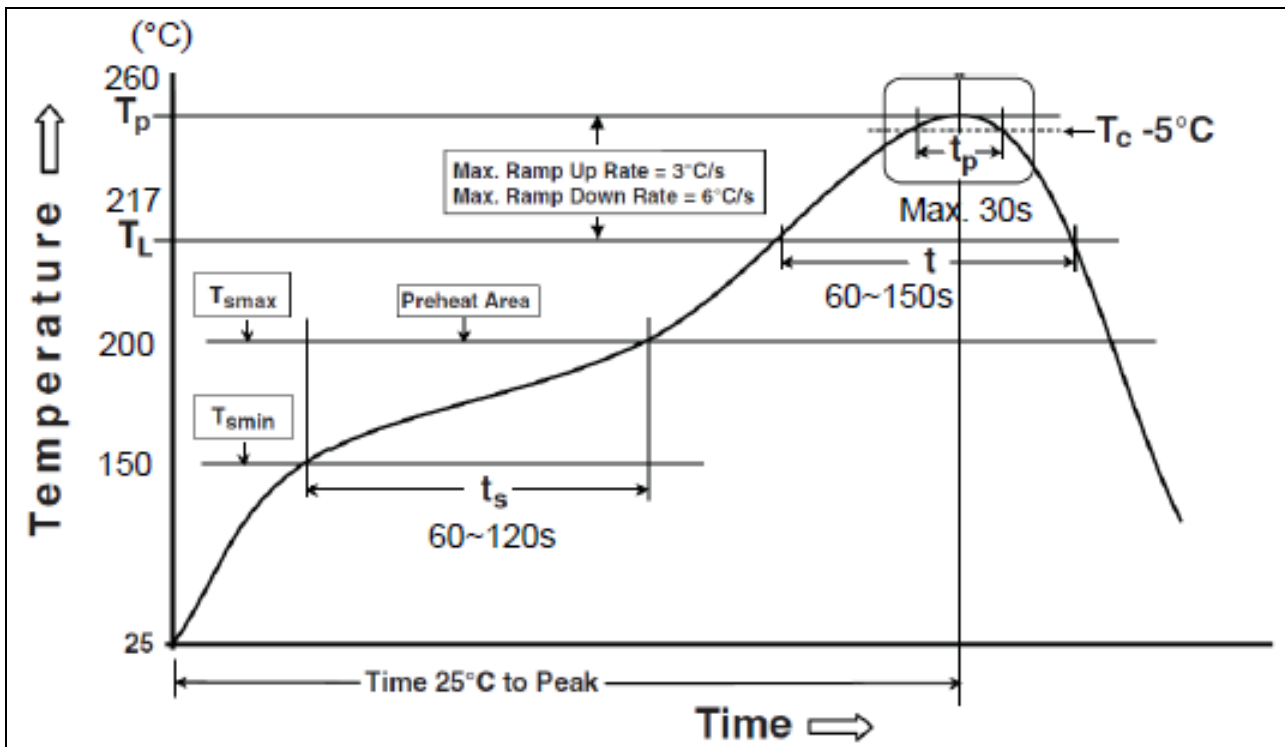
■ Environmental Characteristics

Item	Requirement	Test Method
Inductance	As Spec.	Measuring equipment and fixture: 0201: HP4287+Agilent 16196C 0402: HP4287+Agilent 16196B
Insulation Resistance	>1000MΩ	MIL-STD-202 Method 302 Apply 100V _{DC} for 1minute
Damp Heat with Load	$\Delta L \leq 10\%$	MIL-STD-202 Method 103B 40±2°C, 90~95% R.H. Max. working voltage for 1000 hrs with 1.5 hrs "ON" and 0.5 hrs "OFF"
Bending Strength	As Spec.	JIS-C-5201-1 4.33 Bending amplitude 3 mm for 60 seconds.
Solderability	95% min. coverage	MIL-STD-202 Method 208H 245±5°C for 3 seconds
Resistance to Soldering Heat	$\Delta L \leq 10\%$	MIL-STD-202 Method 210E 260±5°C for 10 seconds
Dielectric Withstand Voltage	>100V	MIL-STD-202 Method 301 Apply 100VA (rms) for 1minute
High Temperature Exposure	$\Delta L \leq 10\%$	MIL-STD-202 Method 108 125±3°C, 1000 hours
Low Temperature Storage	$\Delta L \leq 10\%$	IEC 60068-2-1 Exposed to a temperature of -55±3°C for 2H
Temperature Cycle	$\Delta L \leq 10\%$	JESD22 Method JA-104 -55°C to +125°C, 10 cycles

■ Storage Temperature: 15~28°C; Humidity < 80%RH

■ Shelf Life: 2 years from production date.

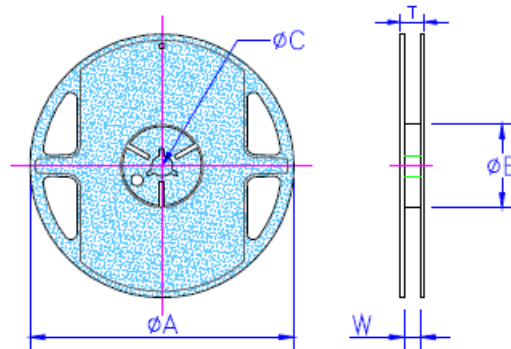
■ Soldering Condition (Ref. IPC/JEDEC J-STD-020 & J-STD-002)



Reflow Profiles	
Profile Feature	Pb-Free Assembly
Preheat Min. Temperature (T_{smin}) Max Temperature (T_{smax}) Preheating time (t_s) from (T_{smin} to T_{smax})	150 °C 200 °C 60-120 seconds
Ramp-up rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Min. Peak temperature (T_p min)	235°C
Max. Peak temperature (T_p max)	260°C
Time (t_p) within 5 °C of the specified classification temperature (T_c)	30 seconds max.
Ramp-down rate (T_p to T_L)	6 °C/second max.
Time 25 °C to peak temperature	8 minutes max.

■ Packaging

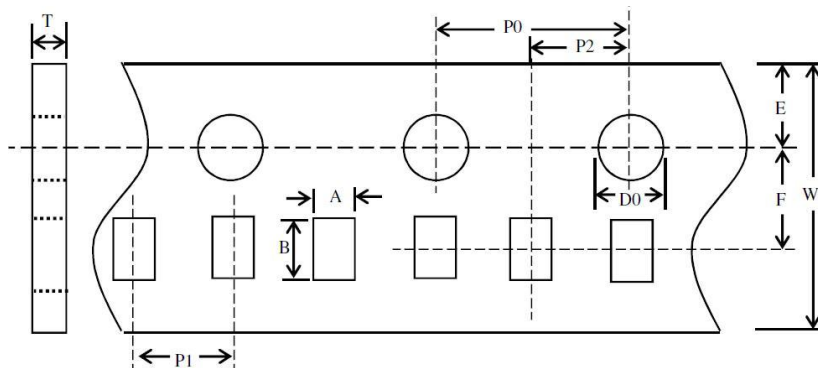
Reel Specifications & Packaging Quantity



Unit: mm

Type	ψA	ψB	ψC	W	T	Quantity (EA)
AL01	178±1.0	60.0+1.0	13.5±0.70	9.5±1.0	11.5±1.0	10,000
AL02	178±1.0	60.0+1.0	13.5±0.70	9.5±1.0	11.5±1.0	10,000

Paper Tape Specifications



Unit: mm

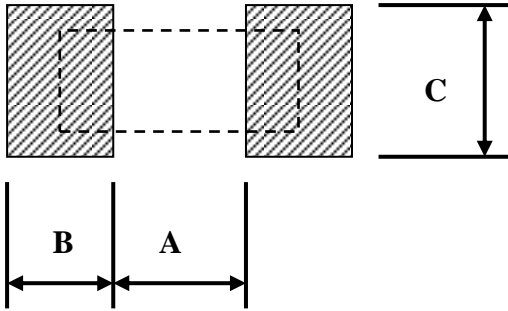
Type	A	B	W	E	F	P0	P1	P2	ψD0	T
AL01	0.40±0.05	0.70±0.05	8.00±0.10	1.75±0.05	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.55±0.03	0.42±0.02
AL02	0.70±0.05	1.16±0.05	8.00±0.10	1.75±0.05	3.50±0.05	4.00±0.10	2.00±0.05	2.00±0.05	1.55±0.05	0.43±0.03

Remark : Test Method

Test direction : bar mark faces left

Recommend Land Pattern

Unit: mm



Type	A	B	C
AL01	0.30	0.25	0.30±0.2
AL02	0.50	0.45	0.60±0.2