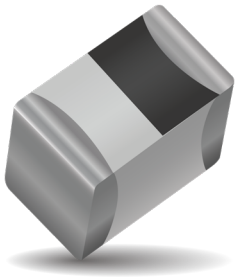
MULTI-LAYER CERAMIC CHIP INDUCTORS

LCCI Series



APPLICATIONS

High Frequency Applications:

- Mobile Communications
- WLAN
- PHS
- EMI Counter measure in High Frequency Circuits
- Computer Communication

FEATURES

For high frequency applications

- Standard EIA sizes 0201 (0603), 0402 (1005), 0603 (1608)
- Lead-free RoHS compliant parts
- Tight tolerance in physical dimensions
- Surface mounting applicability (Supports reflow soldering condition)
- Tight Inductance Tolerance, Excellent Q and Guaranteed SRF range
- High product quality and outstanding reliability. (Ceramic integrated structure)
- Operating temperature -40°C to +85°C

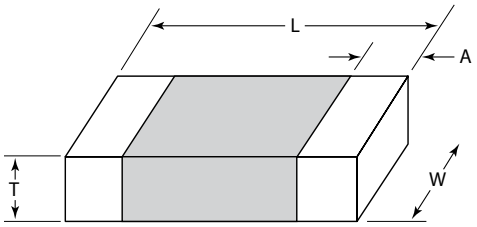
HOW TO ORDER

LC	CI	0402	K	101	G	T	A	R
Family	**Series**	**Size**	**Tolerance**	**Inductance**	**Style**	**Termination**	**Special**	**Packaging**
LC = Chip Inductor		0201 0402 0603	G = 2% H = 3% J = 5% K = 10% B = 0.1nH C = 0.2nH S = 0.3nH	3N9 = 3.9nH 39N = 39nH R39 = 390nH	G = Standard* Q = High Q	T = Sn Plating	A = Standard	R = 7" Reel

DIMENSIONS

mm (inches)

Size	L	W	T	A	
				Min	Max
0201	0.60 ± 0.03 (0.024 ± 0.001)	0.30 ± 0.03 (0.012 ± 0.001)	0.30 ± 0.03 (0.012 ± 0.001)	0.10 (0.004)	0.20 (0.008)
0402	1.00 ± 0.10 (0.040 ± 0.004)	0.50 ± 0.10 (0.020 ± 0.004)	0.50 ± 0.10 (0.020 ± 0.004)	0.10 (0.004)	0.30 (0.012)
0603	1.60 ± 0.15 (0.063 ± 0.006)	0.80 ± 0.15 (0.031 ± 0.006)	0.80 ± 0.15 (0.031 ± 0.006)	0.20 (0.008)	0.60 (0.024)



AVAILABLE INDUCTANCE VALUE AND TOLERANCE

Size Code	Available Inductance	Inductance Ranges	Standard Tollerance
LCCI0201	0.6nH - 39nH	0.6nH-0.9nH	B=±0.1nH
		1.0nH-6.2nH	B=±0.1nH, C=±0.2nH, S= ±0.3 nH
		6.8nH - 27nH	H=±3%, J=±5%
		33nH-39nH	J=±5%
LCCI0402	0.3nH - 150nH	0.3nH-0.8nH	B=±0.1nH
		1.0nH-6.2nH	B=±0.1nH, C=±0.2nH, S= ±0.3 nH
		6.8nH-68nH	G=±2%, H=±3%, J=±5%
		82nH-150nH	J=±5%
LCCI0603	1.0 nH - 270 nH	1.0nH-5.6nH	S= ± 0.3nH
		6.8nH-270nH	J=±5%

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ELECTRICAL CHARACTERISTICS

Case Size 0201

KYOCERA AVX P/N	Inductance (nH)	Tolerance	Q (Min.)	Freq. (MHz)	DCR (W) Max.	S.R.F. (MHz) Min.	Rated Current (mA) Max.
LCCI0201B0N6QTAR	0.6	B	14	500	0.07	20,000	850
LCCI0201B0N7QTAR	0.7	B	14	500	0.08	20,000	800
LCCI0201B0N8QTAR	0.8	B	14	500	0.08	18,000	800
LCCI0201B0N9QTAR	0.9	B	14	500	0.1	18,000	750
LCCI0201B1N0QTAR	1.0	B	14	500	0.1	17,000	750
LCCI0201B1N1QTAR	1.1	B	14	500	0.1	17,000	750
LCCI0201B1N2QTAR	1.2	B	14	500	0.1	17,000	750
LCCI0201B1N3QTAR	1.3	B	14	500	0.15	17,000	600
LCCI0201B1N4QTAR	1.4	B	14	500	0.15	16,000	600
LCCI0201B1N5QTAR	1.5	B	14	500	0.15	15,000	600
LCCI0201B1N6QTAR	1.6	B	14	500	0.15	15,000	600
LCCI0201B1N7QTAR	1.7	B	14	500	0.15	15,000	600
LCCI0201B1N8QTAR	1.8	B	14	500	0.15	15,000	600
LCCI0201B1N9QTAR	1.9	B	14	500	0.15	12,500	600
LCCI0201B2N0QTAR	2.0	B	14	500	0.15	12,500	600
LCCI0201B2N1QTAR	2.1	B	14	500	0.15	11,000	600
LCCI0201B2N2QTAR	2.2	B	14	500	0.15	11,000	600
LCCI0201B2N3QTAR	2.3	B	14	500	0.2	10,000	500
LCCI0201B2N4QTAR	2.4	B	14	500	0.2	10,000	500
LCCI0201B2N5QTAR	2.5	B	14	500	0.2	10,000	500
LCCI0201B2N6QTAR	2.6	B	14	500	0.2	10,000	500
LCCI0201B2N7QTAR	2.7	B	14	500	0.2	10,000	500
LCCI0201B2N8QTAR	2.8	B	14	500	0.2	9,500	500
LCCI0201B2N9QTAR	2.9	B	14	500	0.2	9,500	500
LCCI0201B3N0QTAR	3.0	B	14	500	0.25	9,500	450
LCCI0201B3N1QTAR	3.1	B	14	500	0.25	8,000	450
LCCI0201B3N2QTAR	3.2	B	14	500	0.25	8,000	450
LCCI0201B3N3QTAR	3.3	B	14	500	0.25	8,000	450
LCCI0201B3N4QTAR	3.4	B	14	500	0.25	7,000	450
LCCI0201B3N5QTAR	3.5	B	14	500	0.25	7,000	450
LCCI0201B3N6QTAR	3.6	B	14	500	0.3	6,000	400
LCCI0201B3N7QTAR	3.7	B	14	500	0.3	6,000	400
LCCI0201B3N8QTAR	3.8	B	14	500	0.3	6,000	400
LCCI0201B3N9QTAR	3.9	C	14	500	0.3	5,700	400
LCCI0201C4N0QTAR	4.0	C	14	500	0.4	5,300	350
LCCI0201C4N1QTAR	4.1	C	14	500	0.4	5,300	350
LCCI0201C4N2QTAR	4.2	J	14	500	0.4	5,300	350
LCCI0201J4N3QTAR	4.3	J	14	500	0.4	5,300	350
LCCI0201J4N7QTAR	4.7	J	14	500	0.4	4,400	350
LCCI0201J5N1QTAR	5.1	J	14	500	0.4	4,200	350
LCCI0201J5N6QTAR	5.6	J	14	500	0.4	4,000	350
LCCI0201J6N2QTAR	6.2	J	14	500	0.6	4,000	300
LCCI0201J6N8QTAR	6.8	J	14	500	0.6	3,900	300
LCCI0201J7N5QTAR	7.5	J	14	500	0.6	3,700	300
LCCI0201J8N2QTAR	8.2	J	14	500	0.7	3,600	250
LCCI0201J9N1QTAR	9.1	J	14	500	0.7	3,300	250
LCCI0201J10NQTAR	10	J	14	500	0.7	3,200	250
LCCI0201J11NQTAR	11	J	14	500	0.8	2,900	250
LCCI0201J12NQTAR	12	J	12	500	0.7	2,900	250

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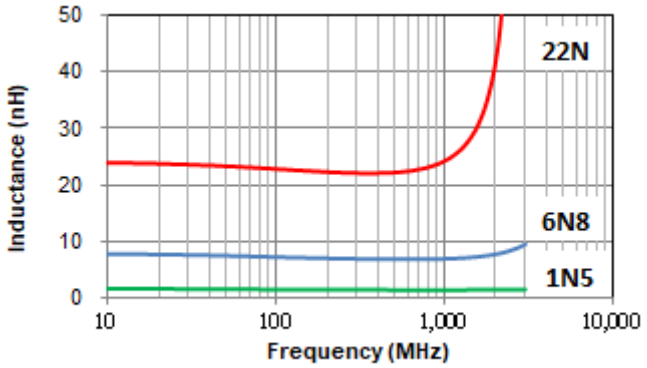
ELECTRICAL CHARACTERISTICS (CONTINUED)

Case Size 0201

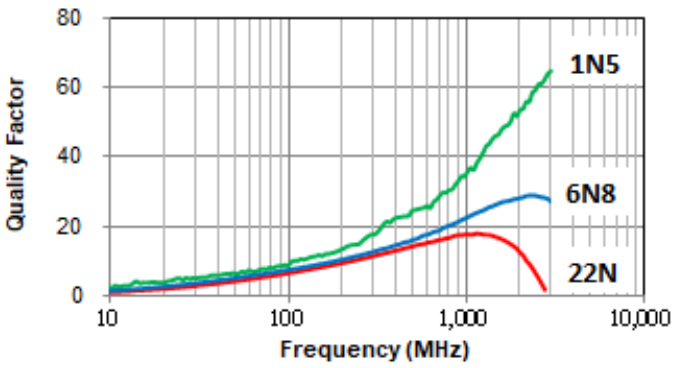
KYOCERA AVX P/N	Inductance (nH)	Tolerance	Q (Min.)	Freq. (MHz)	DCR (W) Max.	S.R.F. (MHz) Min.	Rated Current (mA) Max.
LCCI0201J13NQTAR	13	J	12	500	0.8	2,600	250
LCCI0201J15NQTAR	15	J	12	500	0.7	2,600	250
LCCI0201J16NQTAR	16	J	12	500	0.95	2,200	200
LCCI0201J18NQTAR	18	J	12	500	0.8	2,200	200
LCCI0201J20NQTAR	20	J	12	500	2.3	2,200	150
LCCI0201J22NQTAR	22	J	12	500	1.9	2,200	150
LCCI0201J24NQTAR	24	J	12	500	2.3	2,000	140
LCCI0201J27NQTAR	27	J	12	500	2.3	2,000	140
LCCI0201J30NQTAR	30	J	9	500	2.95	1,700	120
LCCI0201J33NQTAR	33	J	9	300	2.95	1,700	120
LCCI0201J36NQTAR	36	J	9	300	3	1,500	120
LCCI0201J39NQTAR	39	J	9	300	3	1,500	120
LCCI0201J43NQTAR	43	J	9	300	3.6	1,300	100
LCCI0201J47NQTAR	47	J	9	300	3.6	1,300	100
LCCI0201J51NQTAR	51	J	9	300	3.9	1,200	100
LCCI0201J56NQTAR	56	J	9	300	3.9	1,200	100
LCCI0201J62NQTAR	62	J	8	300	8	1,100	100
LCCI0201J68NQTAR	68	J	8	300	8	1,100	100
LCCI0201J75NQTAR	75	J	8	300	10	1,000	100

Tolerance: B = ±0.1nH, C = ±0.2nH, S = ±0.3nH, G = ±2%, H = ±3%, J = ±5%, K = ±10%
Measuring Equipment: HP4287+16196C
Measuring Temperature: 25 ± 3°C
Operating Temperature: -40°C to +85°C

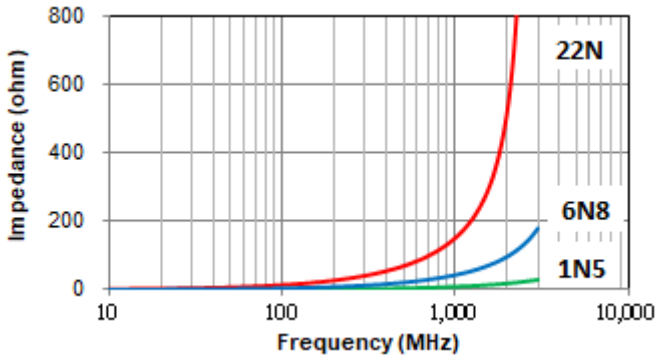
0201 L VS Frequency



0201 Q VS Frequency



0201 Z VS Frequency



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ELECTRICAL CHARACTERISTICS

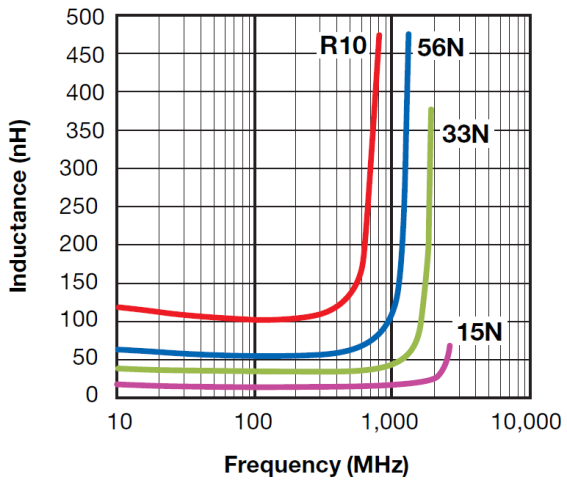
Case Size 0402

Ordering Code	L (nH)	L Tolerance	Q Min.	L,Q TEST FREQ. (MHz)	SRF (MHz) MIN.	DC Resistance (Ω) MAX.	Irms (mA) MAX.
0N3	0.3	B=±0.1nH	8	100	10,000	0.08	1000
0N4	0.4	B=±0.1nH	8	100	10,000	0.08	1000
0N5	0.5	B=±0.1nH	8	100	10,000	0.08	1000
0N6	0.6	B=±0.1nH	8	100	10,000	0.08	1000
0N7	0.7	B=±0.1nH	8	100	10,000	0.08	1000
0N8	0.8	B=±0.1nH	8	100	10,000	0.08	1000
1N0	1	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.08	1000
1N1	1.1	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.08	1000
1N2	1.2	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.09	1000
1N3	1.3	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.09	1000
1N5	1.5	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.1	1000
1N6	1.6	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.1	1000
1N8	1.8	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.12	900
2N0	2	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.12	900
2N2	2.2	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.13	900
2N4	2.4	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	10,000	0.13	800
2N7	2.7	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.16	800
3N0	3	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.16	800
3N3	3.3	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.16	800
3N6	3.6	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.2	700
3N9	3.9	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.2	700
4N3	4.3	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.2	700
4N7	4.7	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	6,000	0.2	700
5N1	5.1	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	5,300	0.23	600
5N6	5.6	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	4,500	0.23	600
6N2	6.2	B=±0.1nH, C=±0.2nH, S= ±0.3 Nh	8	100	4,500	0.25	600
6N8	6.8	G=±2%, H=±3%, J=±5%	8	100	4,500	0.25	600
7N5	7.5	G=±2%, H=±3%, J=±5%	8	100	4,200	0.28	500
8N2	8.2	G=±2%, H=±3%, J=±5%	8	100	3,700	0.28	500
9N1	9.1	G=±2%, H=±3%, J=±5%	8	100	3,400	0.3	500
10N	10	G=±2%, H=±3%, J=±5%	8	100	3,400	0.3	500
12N	12	G=±2%, H=±3%, J=±5%	8	100	3,000	0.45	400
15N	15	G=±2%, H=±3%, J=±5%	8	100	2,500	0.55	400
18N	18	G=±2%, H=±3%, J=±5%	8	100	2,200	0.65	300
22N	22	G=±2%, H=±3%, J=±5%	8	100	1,900	0.7	300
27N	27	G=±2%, H=±3%, J=±5%	8	100	1,700	0.8	300
33N	33	G=±2%, H=±3%, J=±5%	8	100	1,600	0.9	200
39N	39	G=±2%, H=±3%, J=±5%	8	100	1,200	1	200
47N	47	G=±2%, H=±3%, J=±5%	8	100	1,100	1.1	200
56N	56	G=±2%, H=±3%, J=±5%	8	100	1,000	1.1	200
68N	68	G=±2%, H=±3%, J=±5%	8	100	800	1.2	200
82N	82	J=±5%	8	100	600	1.3	200
R10	100	J=±5%	8	100	600	1.6	200
R12	120	J=±5%	8	100	600	1.6	150
R15	150	J=±5%	8	100	550	3.2	140

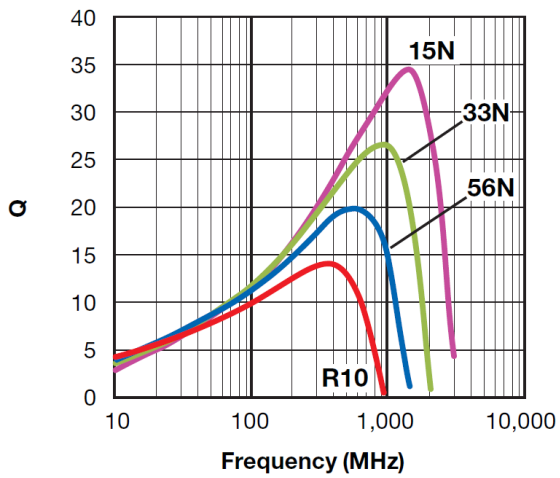
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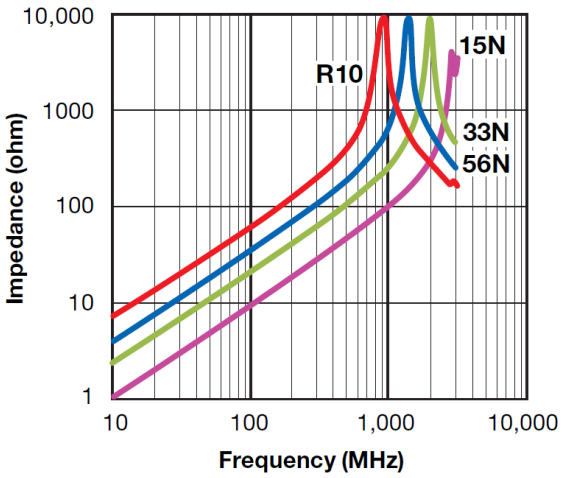
0402 L VS Frequency



0402 Q VS Frequency



0402 Z VS Frequency



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ELECTRICAL CHARACTERISTICS

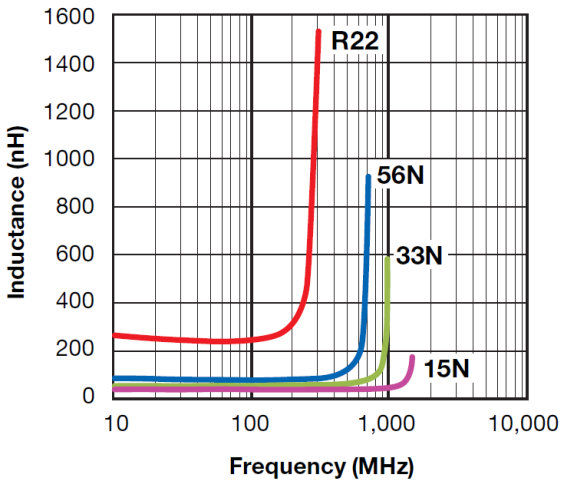
Case Size 0603

Ordering Code	L (nH)	L Tolerance	Q Min.	L,Q TEST FREQ. (MHz)	SRF (MHz) MIN.	DC Resistance (Ω) MAX.	Irms (mA) MAX.
1N0	1	S= ± 0.3nH	8	100	10000	0.05	1000
1N2	1.2	S= ± 0.3nH	8	100	10000	0.05	1000
1N5	1.5	S= ± 0.3nH	8	100	10000	0.1	1000
1N8	1.8	S= ± 0.3nH	8	100	10000	0.1	1000
2N2	2.2	S= ± 0.3nH	8	100	8000	0.1	1000
2N7	2.7	S= ± 0.3nH	10	100	7000	0.13	1000
3N3	3.3	S= ± 0.3nH	10	100	6000	0.13	1000
3N9	3.9	S= ± 0.3nH	10	100	6000	0.15	1000
4N7	4.7	S= ± 0.3nH	10	100	5000	0.2	1000
5N6	5.6	S= ± 0.3nH	10	100	4000	0.23	600
6N8	6.8	J=±5%	10	100	4000	0.25	600
8N2	8.2	J=±5%	10	100	3500	0.28	600
10N	10	J=±5%	12	100	3400	0.3	600
12N	12	J=±5%	12	100	2600	0.35	600
15N	15	J=±5%	12	100	2300	0.4	600
18N	18	J=±5%	12	100	2000	0.45	600
22N	22	J=±5%	12	100	1600	0.5	600
27N	27	J=±5%	12	100	1400	0.55	600
33N	33	J=±5%	12	100	1200	0.6	600
39N	39	J=±5%	12	100	1100	0.65	500
47N	47	J=±5%	12	100	900	0.7	500
56N	56	J=±5%	12	100	900	0.75	500
68N	68	J=±5%	12	100	700	0.85	400
82N	82	J=±5%	12	100	600	0.95	300
R10	100	J=±5%	12	100	600	1	300
R12	120	J=±5%	8	50	500	1.2	300
R15	150	J=±5%	8	50	500	1.2	300
R18	180	J=±5%	8	50	400	1.3	300
R22	220	J=±5%	8	50	400	1.5	300
R27	270	J=±5%	8	50	400	1.9	200

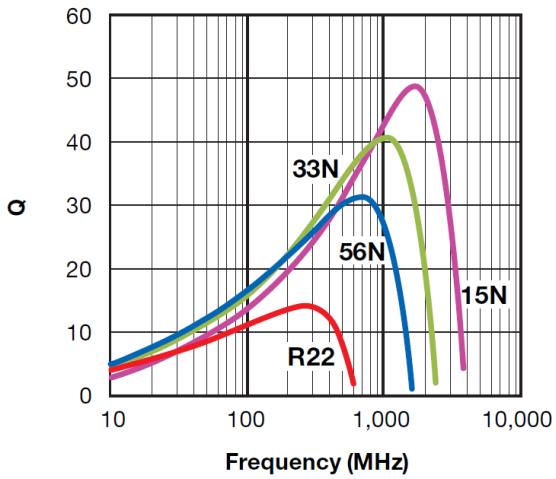
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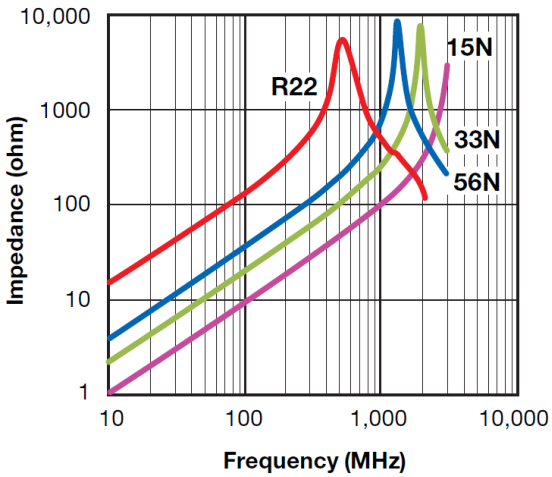
0603 L VS Frequency



0603 Q VS Frequency

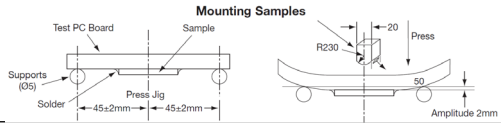
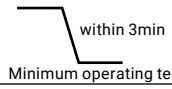


0603 Z VS Frequency



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TEST CONDITION AND REQUIREMENTS

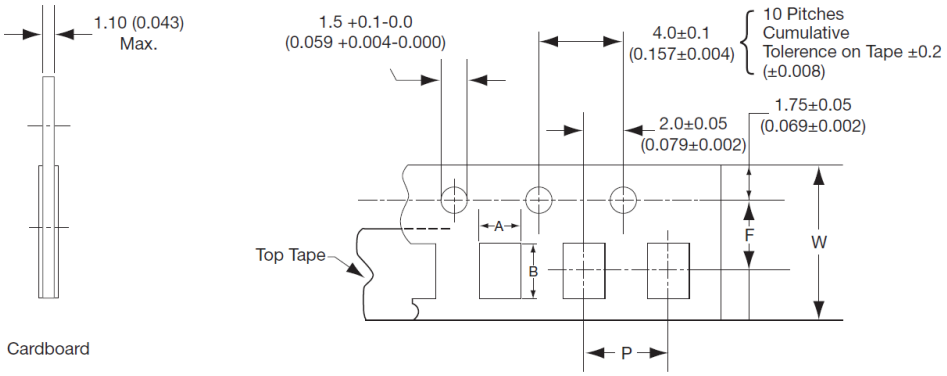
No.	Item	Test Condition	Requirements
1	Inductance	• Temperature: 25 ± 3°C • Relative Humidity: 45 to 75%RH • Measuring equipment and fixture: (0603) HP 4291+16192A (0402) HP 4287+16193A (0201) HP 4287+16196C	Within specified tolerance.
2	Q Value	• Temperature: 25 ± 3°C • Relative Humidity: 45 to 75%RH • Measuring equipment and fixture: (0603) HP 4291+16192A (0402) HP 4287+16193A (0201) HP 4287+16196C	In accordance with electrical specification.
3	DC Resistance	• Temperature: 25 ± 3°C • Relative Humidity: 45 to 75%RH • Measuring equipment: HP 4338.	In accordance with electrical specification.
4	Appearance	Inductors shall be visually inspected for visible evidence of defect.	In accordance with specification.
5	Dimension	Dimension shall be measured with caliper or micrometer	In accordance with dimension specification.
6	Solderability	Immerse a test sample into a methanol solution containing resin and immerse into molten solder of 230 ± 5°C for 5 ± 1 second.	More than 75% of the terminal electrode part shall be covered with fresh solder.
7	Bending Strength	Solder the chip to test jig then apply a force in the direction shown in below. The soldering shall be done with the reflow method and shall be conducted with care so that the soldering is uniform and free of defects such as heat shock. 	1. No mechanical damage shall be observed. 2. Rdc-value: to meet the initial Spec.
8	Resistance to Soldering Heat	Immerse a test sample into a methanol solution containing resin, preheat it at 120 to 150°C for 1 minute and immerse into molten solder of 270 ± 5°C for 10 ± 1 second so that both terminal electrodes are completely submerged.	No visible damage. Inductance variation within 10%. Q variation within 20%.
9	Thermal Shock	Solder a test sample to printed circuit board, and conduct 5 cycles of test under the conditions shown as below. 0201 & 0402 operating temp. range: -55~125°C 0603 operating temp. range: -40~85°C Cycle: Maximum operating temp. (30 ± 3min) 	No visible damage. Inductance variation within 10%. Q variation within 20%.
10	High Humidity State Life Test	Keep a test sample in an atmosphere with a temperature of 40 ± 2°C, 90~95%RH for 500 ± 12 hours. After the removal from test chamber, 2 to 3 hours of recovery under standard condition, and measurement shall be made after 24 ± 2 hrs. of recovery under standard condition.	No visible damage. Inductance variation within 10%. Q variation within 20%.
11	High Humidity Load Life Test	Solder a test sample to printed circuit board then keep the test sample in an atmosphere with a temperature of 40 ± 2°C, 90~95%RH for 500 ± 12 hours while supplying the rated current. After the removal from test chamber, 2 to 3 hours of recovery under standard condition, and measurement shall be made after 24 ± 2 hrs. of recovery under standard condition.	No visible damage. Inductance variation within 10%. Q variation within 20%.
12	High Temperature State Life Test	Keep a test sample in an atmosphere with a temperature of 85 ± 2°C for 500 ± 12 hours. After the removal from test chamber, 2 to 3 hours of recovery under standard condition, and measurement shall be made after 24 ± 2 hrs. of recovery under standard condition.	No visible damage. Inductance variation within 10%. Q variation within 20%.
13	High Temperature Load	Solder a test sample to printed circuit board then keep the test sample in an atmosphere with a temperature of 85 ± 2°C for 500 ± 12 hours while supplying the rated current. After the removal from test chamber, 2 to 3 hours of recovery under standard condition, and measurement shall be made after 24 ± 2 hrs. of recovery under standard condition.	No visible damage. Inductance variation within 10%. Q variation within 20%.

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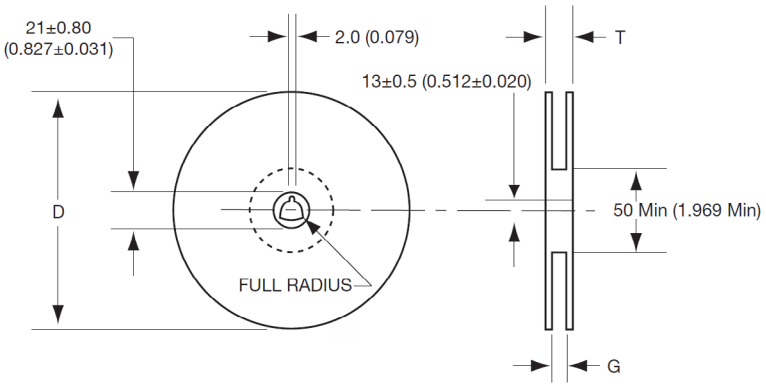
PACKAGING SPECIFICATIONS

Paper tape specification (0201/0402/0603)



Symbol	Product Size					
	0201		0402		0603	
	Size	Tolerance	Size	Tolerance	Size	Tolerance
A	0.36 (0.015)	± 0.02 (0.001)	0.60 (0.024)	± 0.03 (0.001)	0.98 (0.038)	± 0.03 (0.002)
B	0.66 (0.027)	± 0.02 (0.001)	1.12 (0.044)	± 0.03 (0.001)	1.80 (0.071)	± 0.05 (0.002)
F	3.50 (0.138)	± 0.05 (0.002)	3.50 (0.138)	± 0.05 (0.002)	3.50 (0.138)	± 0.05 (0.002)
P	2.00 (0.079)	± 0.10 (0.004)	2.00 (0.079)	± 0.10 (0.004)	4.00 (0.157)	± 0.10 (0.004)
W	8.00 (0.315)	± 0.20 (0.008)	8.00 (0.315)	± 0.20 (0.008)	8.00 (0.315)	± 0.10 (0.008)

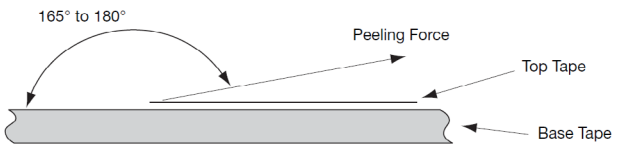
Reel Specifications



Tape Width	G	T max.	D
8.00 (0.315)	10.0 ± 1.5 (0.394 ± 0.059)	14.5 (0.571)	180 (7.087)

Peel strength of top cover tape

The peel speed shall be about 300 mm/min.
The peel strength of top cover tape shall be between 0.1 to 1.0N.



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Quantity per reel:

0201: 15,000 pieces / reel
0402: 10,000 pieces / reel
0603: 4,000 pieces / reel

The contents of a box:

0201: 5 reels / box
0402: 5 reels / box
0603: 5 reels / box

CAUTIONS

Storage

The chip inductor shall be packaged in carrier tapes.

To keep storage place temperature from +5 to 35ºC, humidity from 45 to 70% RH.

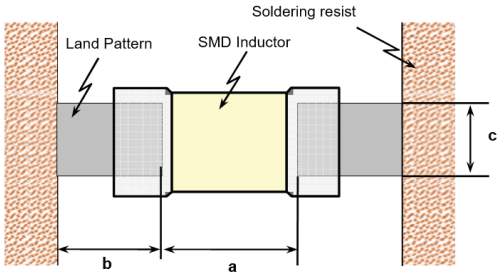
The storage atmosphere must be free of gas containing sulfur and chlorine. Also, avoid exposing the product to saline moisture. If the product is exposed to such atmospheres, the terminals will oxidize and solderability will be affected.

The solderability is assured for 12 months from our final inspection date if the above storage condition is followed.

Handling

Chip inductor should be handled with care to avoid contamination or damage. The use of vacuum pick-up or plastic tweezers is recommended for manual placement. Tape and reeled packages are suitable for automatic pick and placement machine.

Recommended Pad Dimensions



mm (inches

Size (EIA)	L XW	a	b	c
0201	0.60 x 0.30 (0.024 x 0.012)	0.15 to 0.35 (0.006 to 0.014)	0.20 to 0.30 (0.008 to 0.012)	0.25 to 0.30 (0.010 to 0.012)
0402	1.00 x 0.50 (0.039 x 0.020)	0.30 to 0.50 (0.012 to 0.020)	0.35 to 0.45 (0.014 to 0.018)	0.40 to 0.50 (0.016 to 0.020)
0603	1.60 x 0.80 (0.063 x 0.031)	0.70 to 1.00 (0.028 to 0.039)	0.60 to 0.80 (0.024 to 0.031)	0.70 to 0.80 (0.028 to 0.031)

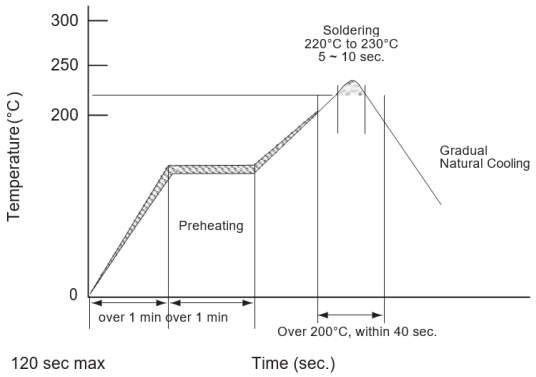
Marking

The following item shall be marked on the reel.

1. Manufactures parts number.
2. Manufacturing date code.
3. Manufacturer name.
4. Manufactures lot number.
5. Quantity.

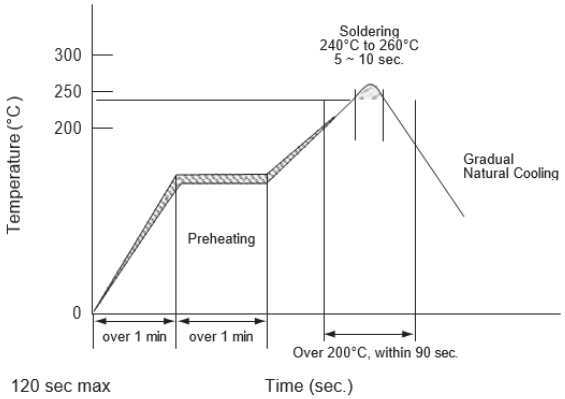
Soldering Profile for SMT Process with SnPb Solder Paste

The rate of preheat should not exceed 4ºC/sec. and a target of 2ºC/sec. is preferred. Ceramic chip components should be preheated to within 100 to 130ºC of the soldering.



Soldering Profile for SMT Process with Lead Free Solder Paste

The rate of preheat should not exceed 4ºC/sec. and a target of 2ºC/sec. is preferred. Ceramic chip components should be preheated to within 100 to 130ºC of the soldering.



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