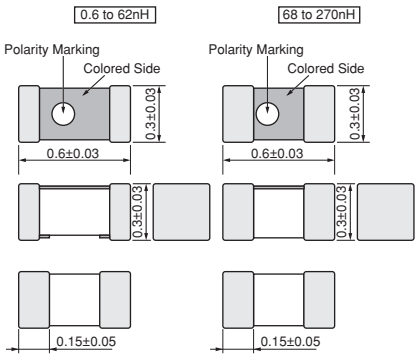
Chip Inductor (Chip Coil) for High Frequency Film Type

LQP03TN_02 Series (0201 Size)

■ Dimensions



(in mm)

■ Packaging

Code	Packaging	Minimum Quantity
D	180mm Paper Tape	15000
J	330mm Paper Tape	50000
B	Bulk(Bag)	500

■ Rated Value (□: packaging code)

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQP03TN0N6B02□	0.6nH ±0.1nH	500MHz	850mA	0.07ohm	14	500MHz	6000MHz
LQP03TN0N6C02□	0.6nH ±0.2nH	500MHz	850mA	0.07ohm	14	500MHz	6000MHz
LQP03TN0N7B02□	0.7nH ±0.1nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz
LQP03TN0N7C02□	0.7nH ±0.2nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz
LQP03TN0N8B02□	0.8nH ±0.1nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz
LQP03TN0N8C02□	0.8nH ±0.2nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz
LQP03TN0N9B02□	0.9nH ±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN0N9C02□	0.9nH ±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N0B02□	1.0nH ±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N0C02□	1.0nH ±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N1B02□	1.1nH ±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N1C02□	1.1nH ±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N2B02□	1.2nH ±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N2C02□	1.2nH ±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz
LQP03TN1N3B02□	1.3nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N3C02□	1.3nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N4B02□	1.4nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N4C02□	1.4nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N5B02□	1.5nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N5C02□	1.5nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N6B02□	1.6nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N6C02□	1.6nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N7B02□	1.7nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N7C02□	1.7nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N8B02□	1.8nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N8C02□	1.8nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C
Only for reflow soldering.

Continued on the following page.

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Data Sheet

Continued from the preceding page.

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQP03TN1N9B02□	1.9nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN1N9C02□	1.9nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N0B02□	2.0nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N0C02□	2.0nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N1B02□	2.1nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N1C02□	2.1nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N2B02□	2.2nH ±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N2C02□	2.2nH ±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz
LQP03TN2N3B02□	2.3nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N3C02□	2.3nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N4B02□	2.4nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N4C02□	2.4nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N5B02□	2.5nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N5C02□	2.5nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N6B02□	2.6nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N6C02□	2.6nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N7B02□	2.7nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N7C02□	2.7nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N8B02□	2.8nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N8C02□	2.8nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N9B02□	2.9nH ±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN2N9C02□	2.9nH ±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz
LQP03TN3N0B02□	3.0nH ±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N0C02□	3.0nH ±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N1B02□	3.1nH ±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N1C02□	3.1nH ±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N2B02□	3.2nH ±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N2C02□	3.2nH ±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N3B02□	3.3nH ±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N3C02□	3.3nH ±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N4B02□	3.4nH ±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N4C02□	3.4nH ±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N5B02□	3.5nH ±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N5C02□	3.5nH ±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz
LQP03TN3N6B02□	3.6nH ±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz
LQP03TN3N6C02□	3.6nH ±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz
LQP03TN3N7B02□	3.7nH ±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz
LQP03TN3N7C02□	3.7nH ±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz
LQP03TN3N8B02□	3.8nH ±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz
LQP03TN3N8C02□	3.8nH ±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz
LQP03TN3N9B02□	3.9nH ±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	5700MHz
LQP03TN3N9C02□	3.9nH ±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	5700MHz
LQP03TN4N0B02□	4nH ±0.1nH	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N0C02□	4nH ±0.2nH	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N1B02□	4.1nH ±0.1nH	500MHz	350mA	0.40ohm	14	500MHz	5300MHz

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C
Only for reflow soldering.

Continued on the following page.

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Continued from the preceding page.

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQP03TN4N1C02□	4.1nH ±0.2nH	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N2B02□	4.2nH ±0.1nH	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N2C02□	4.2nH ±0.2nH	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N3H02□	4.3nH ±3%	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N3J02□	4.3nH ±5%	500MHz	350mA	0.40ohm	14	500MHz	5300MHz
LQP03TN4N7H02□	4.7nH ±3%	500MHz	350mA	0.40ohm	14	500MHz	4400MHz
LQP03TN4N7J02□	4.7nH ±5%	500MHz	350mA	0.40ohm	14	500MHz	4400MHz
LQP03TN5N1H02□	5.1nH ±3%	500MHz	350mA	0.40ohm	14	500MHz	4200MHz
LQP03TN5N1J02□	5.1nH ±5%	500MHz	350mA	0.40ohm	14	500MHz	4200MHz
LQP03TN5N6H02□	5.6nH ±3%	500MHz	350mA	0.40ohm	14	500MHz	4000MHz
LQP03TN5N6J02□	5.6nH ±5%	500MHz	350mA	0.40ohm	14	500MHz	4000MHz
LQP03TN6N2H02□	6.2nH ±3%	500MHz	300mA	0.60ohm	14	500MHz	4000MHz
LQP03TN6N2J02□	6.2nH ±5%	500MHz	300mA	0.60ohm	14	500MHz	4000MHz
LQP03TN6N8H02□	6.8nH ±3%	500MHz	300mA	0.60ohm	14	500MHz	3900MHz
LQP03TN6N8J02□	6.8nH ±5%	500MHz	300mA	0.60ohm	14	500MHz	3900MHz
LQP03TN7N5H02□	7.5nH ±3%	500MHz	300mA	0.60ohm	14	500MHz	3700MHz
LQP03TN7N5J02□	7.5nH ±5%	500MHz	300mA	0.60ohm	14	500MHz	3700MHz
LQP03TN8N2H02□	8.2nH ±3%	500MHz	250mA	0.70ohm	14	500MHz	3600MHz
LQP03TN8N2J02□	8.2nH ±5%	500MHz	250mA	0.70ohm	14	500MHz	3600MHz
LQP03TN9N1H02□	9.1nH ±3%	500MHz	250mA	0.70ohm	14	500MHz	3300MHz
LQP03TN9N1J02□	9.1nH ±5%	500MHz	250mA	0.70ohm	14	500MHz	3300MHz
LQP03TN10NH02□	10nH ±3%	500MHz	250mA	0.70ohm	14	500MHz	3200MHz
LQP03TN10NJ02□	10nH ±5%	500MHz	250mA	0.70ohm	14	500MHz	3200MHz
LQP03TN11NH02□	11nH ±3%	500MHz	250mA	0.80ohm	14	500MHz	2900MHz
LQP03TN11NJ02□	11nH ±5%	500MHz	250mA	0.80ohm	14	500MHz	2900MHz
LQP03TN12NH02□	12nH ±3%	500MHz	250mA	0.70ohm	12	500MHz	2900MHz
LQP03TN12NJ02□	12nH ±5%	500MHz	250mA	0.70ohm	12	500MHz	2900MHz
LQP03TN13NH02□	13nH ±3%	500MHz	250mA	0.80ohm	12	500MHz	2600MHz
LQP03TN13NJ02□	13nH ±5%	500MHz	250mA	0.80ohm	12	500MHz	2600MHz
LQP03TN15NH02□	15nH ±3%	500MHz	250mA	0.70ohm	12	500MHz	2600MHz
LQP03TN15NJ02□	15nH ±5%	500MHz	250mA	0.70ohm	12	500MHz	2600MHz
LQP03TN16NH02□	16nH ±3%	500MHz	200mA	0.95ohm	12	500MHz	2200MHz
LQP03TN16NJ02□	16nH ±5%	500MHz	200mA	0.95ohm	12	500MHz	2200MHz
LQP03TN18NH02□	18nH ±3%	500MHz	200mA	0.80ohm	12	500MHz	2200MHz
LQP03TN18NJ02□	18nH ±5%	500MHz	200mA	0.80ohm	12	500MHz	2200MHz
LQP03TN20NH02□	20nH ±3%	500MHz	150mA	2.30ohm	12	500MHz	2200MHz
LQP03TN20NJ02□	20nH ±5%	500MHz	150mA	2.30ohm	12	500MHz	2200MHz
LQP03TN22NH02□	22nH ±3%	500MHz	150mA	1.90ohm	12	500MHz	2200MHz
LQP03TN22NJ02□	22nH ±5%	500MHz	150mA	1.90ohm	12	500MHz	2200MHz
LQP03TN24NH02□	24nH ±3%	500MHz	140mA	2.30ohm	12	500MHz	2000MHz
LQP03TN24NJ02□	24nH ±5%	500MHz	140mA	2.30ohm	12	500MHz	2000MHz
LQP03TN27NH02□	27nH ±3%	500MHz	140mA	2.30ohm	12	500MHz	2000MHz
LQP03TN27NJ02□	27nH ±5%	500MHz	140mA	2.30ohm	12	500MHz	2000MHz
LQP03TN30NH02□	30nH ±3%	500MHz	120mA	2.95ohm	9	500MHz	1700MHz
LQP03TN30NJ02□	30nH ±5%	500MHz	120mA	2.95ohm	9	500MHz	1700MHz

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C
Only for reflow soldering.

Continued on the following page.

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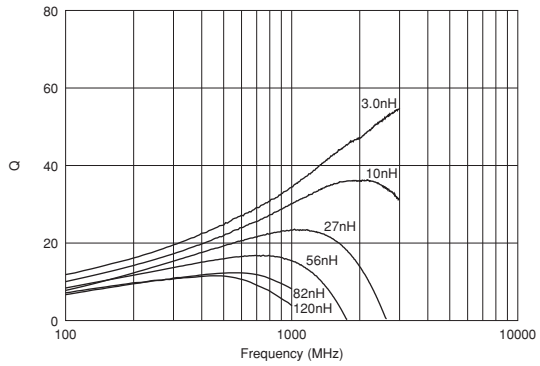
Continued from the preceding page.

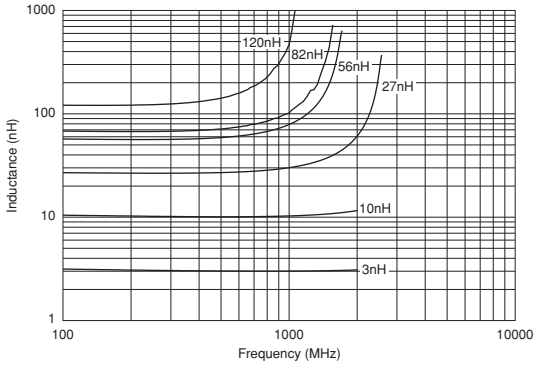
Part Number	Inductance	Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)
LQP03TN33NJ02□	33nH ±5%	300MHz	120mA	2.95ohm	9	300MHz	1700MHz
LQP03TN36NJ02□	36nH ±5%	300MHz	120mA	3.00ohm	9	300MHz	1500MHz
LQP03TN39NJ02□	39nH ±5%	300MHz	120mA	3.00ohm	9	300MHz	1500MHz
LQP03TN43NJ02□	43nH ±5%	300MHz	100mA	3.60ohm	9	300MHz	1300MHz
LQP03TN47NJ02□	47nH ±5%	300MHz	100mA	3.60ohm	9	300MHz	1300MHz
LQP03TN51NJ02□	51nH ±5%	300MHz	100mA	3.90ohm	9	300MHz	1200MHz
LQP03TN56NJ02□	56nH ±5%	300MHz	100mA	3.90ohm	9	300MHz	1200MHz
LQP03TN62NJ02□	62nH ±5%	300MHz	100mA	8.00ohm	8	300MHz	1100MHz
LQP03TN68NJ02□	68nH ±5%	300MHz	100mA	8.00ohm	8	300MHz	1100MHz
LQP03TN75NJ02□	75nH ±5%	300MHz	100mA	10.0ohm	8	300MHz	1000MHz
LQP03TN82NJ02□	82nH ±5%	300MHz	100mA	10.0ohm	8	300MHz	1000MHz
LQP03TN91NJ02□	91nH ±5%	300MHz	80mA	10.0ohm	8	300MHz	900MHz
LQP03TNR10J02□	100nH ±5%	300MHz	80mA	10.0ohm	8	300MHz	900MHz
LQP03TNR11J02□	110nH ±5%	300MHz	80mA	12.0ohm	8	300MHz	800MHz
LQP03TNR12J02□	120nH ±5%	300MHz	80mA	12.0ohm	8	300MHz	800MHz
LQP03TNR13J02□	130nH ±5%	100MHz	80mA	9.00ohm	5	100MHz	650MHz
LQP03TNR15J02□	150nH ±5%	100MHz	80mA	9.00ohm	5	100MHz	650MHz
LQP03TNR16J02□	160nH ±5%	100MHz	70mA	11.0ohm	5	100MHz	600MHz
LQP03TNR18J02□	180nH ±5%	100MHz	70mA	11.0ohm	5	100MHz	600MHz
LQP03TNR20J02□	200nH ±5%	100MHz	60mA	13.0ohm	5	100MHz	500MHz
LQP03TNR22J02□	220nH ±5%	100MHz	60mA	13.0ohm	5	100MHz	500MHz
LQP03TNR24J02□	240nH ±5%	100MHz	60mA	15.0ohm	5	100MHz	450MHz
LQP03TNR27J02□	270nH ±5%	100MHz	60mA	15.0ohm	5	100MHz	450MHz

Operating Temperature Range (Self-temperature rise is not included): -55 to +125°C
Only for reflow soldering.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



■ ⚠Caution/Notice

⚠Caution (Rating)

Do not use products beyond the rated current as this may create excessive heat.

Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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