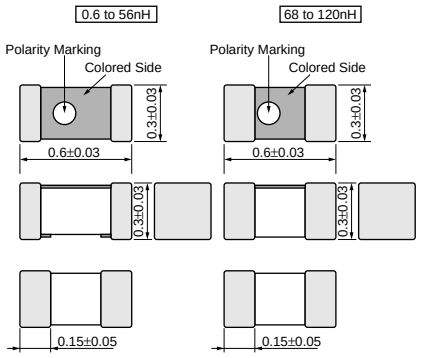
Chip Inductor (Chip Coil) for High Frequency Film Type

LQP03T_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.)	Operating Temperature Range
LQP03TN0N6B02☐	0.6nH±0.1nH	500MHz	850mA	0.07ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N6C02☐	0.6nH±0.2nH	500MHz	850mA	0.07ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N7B02☐	0.7nH±0.1nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N7C02☐	0.7nH±0.2nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N8B02☐	0.8nH±0.1nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N8C02☐	0.8nH±0.2nH	500MHz	800mA	0.08ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N9B02☐	0.9nH±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN0N9C02☐	0.9nH±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N0B02☐	1.0nH±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N0C02☐	1.0nH±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N1B02☐	1.1nH±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N1C02☐	1.1nH±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N2B02☐	1.2nH±0.1nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N2C02☐	1.2nH±0.2nH	500MHz	750mA	0.10ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N3B02☐	1.3nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N3C02☐	1.3nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N4B02☐	1.4nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N4C02☐	1.4nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N5B02☐	1.5nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N5C02☐	1.5nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N6B02☐	1.6nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N6C02☐	1.6nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N7B02☐	1.7nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N7C02☐	1.7nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C

Only for reflow soldering.

Continued on the following page.

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Data Sheet 2

Continued from the preceding page.

Part Number	Inductance	Test Frequency	Rated Current	Max. of DC resistance	Q (min.)	Test Frequency	Self Resonance Frequency (min.)	Operating Temperature Range
LQP03TN1N8B02□	1.8nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N8C02□	1.8nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N9B02□	1.9nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN1N9C02□	1.9nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N0B02□	2.0nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N0C02□	2.0nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N1B02□	2.1nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N1C02□	2.1nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N2B02□	2.2nH±0.1nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N2C02□	2.2nH±0.2nH	500MHz	600mA	0.15ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N3B02□	2.3nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N3C02□	2.3nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N4B02□	2.4nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N4C02□	2.4nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N5B02□	2.5nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N5C02□	2.5nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N6B02□	2.6nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N6C02□	2.6nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N7B02□	2.7nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N7C02□	2.7nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N8B02□	2.8nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N8C02□	2.8nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N9B02□	2.9nH±0.1nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN2N9C02□	2.9nH±0.2nH	500MHz	500mA	0.20ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N0B02□	3.0nH±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N0C02□	3.0nH±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N1B02□	3.1nH±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N1C02□	3.1nH±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N2B02□	3.2nH±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N2C02□	3.2nH±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N3B02□	3.3nH±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N3C02□	3.3nH±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N4B02□	3.4nH±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N4C02□	3.4nH±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N5B02□	3.5nH±0.1nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N5C02□	3.5nH±0.2nH	500MHz	450mA	0.25ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N6B02□	3.6nH±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N6C02□	3.6nH±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N7B02□	3.7nH±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N7C02□	3.7nH±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N8B02□	3.8nH±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz	-55 to +125°C
LQP03TN3N8C02□	3.8nH±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	6000MHz	-55 to +125°C

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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.)	Operating Temperature Range
LQP03TN3N9B02□	3.9nH±0.1nH	500MHz	400mA	0.30ohm	14	500MHz	5700MHz	-55 to +125°C
LQP03TN3N9C02□	3.9nH±0.2nH	500MHz	400mA	0.30ohm	14	500MHz	5700MHz	-55 to +125°C
LQP03TN4N3H02□	4.3nH±3%	500MHz	350mA	0.40ohm	14	500MHz	5300MHz	-55 to +125°C
LQP03TN4N3J02□	4.3nH±5%	500MHz	350mA	0.40ohm	14	500MHz	5300MHz	-55 to +125°C
LQP03TN4N7H02□	4.7nH±3%	500MHz	350mA	0.40ohm	14	500MHz	4400MHz	-55 to +125°C
LQP03TN4N7J02□	4.7nH±5%	500MHz	350mA	0.40ohm	14	500MHz	4400MHz	-55 to +125°C
LQP03TN5N1H02□	5.1nH±3%	500MHz	350mA	0.40ohm	14	500MHz	4200MHz	-55 to +125°C
LQP03TN5N1J02□	5.1nH±5%	500MHz	350mA	0.40ohm	14	500MHz	4200MHz	-55 to +125°C
LQP03TN5N6H02□	5.6nH±3%	500MHz	350mA	0.40ohm	14	500MHz	4000MHz	-55 to +125°C
LQP03TN5N6J02□	5.6nH±5%	500MHz	350mA	0.40ohm	14	500MHz	4000MHz	-55 to +125°C
LQP03TN6N2H02□	6.2nH±3%	500MHz	300mA	0.60ohm	14	500MHz	4000MHz	-55 to +125°C
LQP03TN6N2J02□	6.2nH±5%	500MHz	300mA	0.60ohm	14	500MHz	4000MHz	-55 to +125°C
LQP03TN6N8H02□	6.8nH±3%	500MHz	300mA	0.60ohm	14	500MHz	3900MHz	-55 to +125°C
LQP03TN6N8J02□	6.8nH±5%	500MHz	300mA	0.60ohm	14	500MHz	3900MHz	-55 to +125°C
LQP03TN7N5H02□	7.5nH±3%	500MHz	300mA	0.60ohm	14	500MHz	3700MHz	-55 to +125°C
LQP03TN7N5J02□	7.5nH±5%	500MHz	300mA	0.60ohm	14	500MHz	3700MHz	-55 to +125°C
LQP03TN8N2H02□	8.2nH±3%	500MHz	250mA	0.70ohm	14	500MHz	3600MHz	-55 to +125°C
LQP03TN8N2J02□	8.2nH±5%	500MHz	250mA	0.70ohm	14	500MHz	3600MHz	-55 to +125°C
LQP03TN9N1H02□	9.1nH±3%	500MHz	250mA	0.70ohm	14	500MHz	3300MHz	-55 to +125°C
LQP03TN9N1J02□	9.1nH±5%	500MHz	250mA	0.70ohm	14	500MHz	3300MHz	-55 to +125°C
LQP03TN10NH02□	10nH±3%	500MHz	250mA	0.70ohm	14	500MHz	3200MHz	-55 to +125°C
LQP03TN10NJ02□	10nH±5%	500MHz	250mA	0.70ohm	14	500MHz	3200MHz	-55 to +125°C
LQP03TN12NH02□	12nH±3%	500MHz	250mA	0.70ohm	12	500MHz	2900MHz	-55 to +125°C
LQP03TN12NJ02□	12nH±5%	500MHz	250mA	0.70ohm	12	500MHz	2900MHz	-55 to +125°C
LQP03TN15NH02□	15nH±3%	500MHz	250mA	0.70ohm	12	500MHz	2600MHz	-55 to +125°C
LQP03TN15NJ02□	15nH±5%	500MHz	250mA	0.70ohm	12	500MHz	2600MHz	-55 to +125°C
LQP03TN18NH02□	18nH±3%	500MHz	200mA	0.80ohm	12	500MHz	2200MHz	-55 to +125°C
LQP03TN18NJ02□	18nH±5%	500MHz	200mA	0.80ohm	12	500MHz	2200MHz	-55 to +125°C
LQP03TN22NH02□	22nH±3%	500MHz	150mA	1.90ohm	12	500MHz	2200MHz	-55 to +125°C
LQP03TN22NJ02□	22nH±5%	500MHz	150mA	1.90ohm	12	500MHz	2200MHz	-55 to +125°C
LQP03TN27NH02□	27nH±3%	500MHz	140mA	2.30ohm	12	500MHz	2000MHz	-55 to +125°C
LQP03TN27NJ02□	27nH±5%	500MHz	140mA	2.30ohm	12	500MHz	2000MHz	-55 to +125°C
LQP03TN33NJ02□	33nH±5%	300MHz	120mA	2.95ohm	9	300MHz	1700MHz	-55 to +125°C
LQP03TN39NJ02□	39nH±5%	300MHz	120mA	3.00ohm	9	300MHz	1500MHz	-55 to +125°C
LQP03TN47NJ02□	47nH±5%	300MHz	100mA	3.60ohm	9	300MHz	1300MHz	-55 to +125°C
LQP03TN56NJ02□	56nH±5%	300MHz	100mA	3.90ohm	9	300MHz	1200MHz	-55 to +125°C
LQP03TN68NJ02□	68nH±5%	300MHz	50mA	8.00ohm	8	300MHz	1100MHz	-40 to +85°C
LQP03TN82NJ02□	82nH±5%	300MHz	50mA	10.0ohm	8	300MHz	1000MHz	-40 to +85°C
LQP03TNR10J02□	100nH±5%	300MHz	40mA	10.0ohm	8	300MHz	900MHz	-40 to +85°C
LQP03TNR12J02□	120nH±5%	300MHz	40mA	12.0ohm	8	300MHz	800MHz	-40 to +85°C

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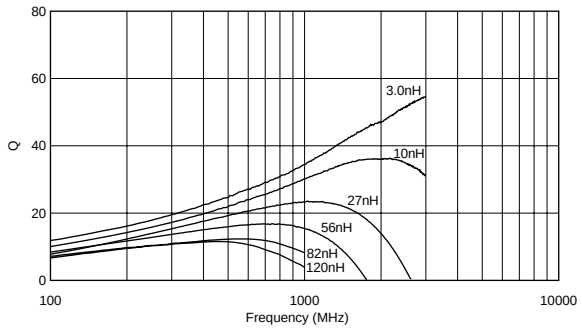
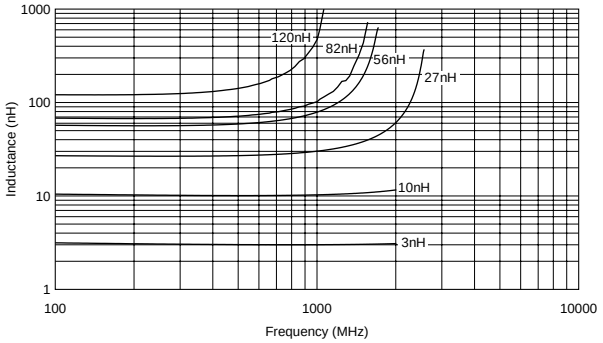
Continued from the preceding page.

■ 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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