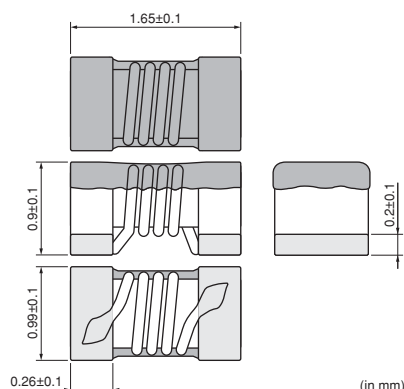


LQW18AN_80 Series 0603/1608 (inch/mm)



■ Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	4000
J	ø330mm Paper Taping	10000
B	Packing in Bulk	500

■ Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Q Test Frequency	Self-Resonance Frequency (min.)
LQW18AN2N2C80□	2.2nH ±0.2nH	100MHz	3200mA	0.018Ω	24	250MHz	15000MHz
LQW18AN2N4C80□	2.4nH ±0.2nH	100MHz	2400mA	0.026Ω	18	250MHz	15000MHz
LQW18AN3N0C80□	3.0nH ±0.2nH	100MHz	670mA	0.17Ω	13	250MHz	15000MHz
LQW18AN3N9B80□	3.9nH ±0.1nH	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN3N9C80□	3.9nH ±0.2nH	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN3N9G80□	3.9nH ±2%	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N1B80□	4.1nH ±0.1nH	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N1C80□	4.1nH ±0.2nH	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N1G80□	4.1nH ±2%	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N2B80□	4.2nH ±0.1nH	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N2C80□	4.2nH ±0.2nH	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N2G80□	4.2nH ±2%	100MHz	2200mA	0.028Ω	30	250MHz	10000MHz
LQW18AN4N3B80□	4.3nH ±0.1nH	100MHz	2100mA	0.036Ω	35	250MHz	11600MHz
LQW18AN4N3C80□	4.3nH ±0.2nH	100MHz	2100mA	0.036Ω	35	250MHz	11600MHz
LQW18AN4N3G80□	4.3nH ±2%	100MHz	2100mA	0.036Ω	35	250MHz	11600MHz
LQW18AN4N7B80□	4.7nH ±0.1nH	100MHz	1500mA	0.054Ω	25	250MHz	10400MHz
LQW18AN4N7C80□	4.7nH ±0.2nH	100MHz	1500mA	0.054Ω	25	250MHz	10400MHz
LQW18AN4N7G80□	4.7nH ±2%	100MHz	1500mA	0.054Ω	25	250MHz	10400MHz
LQW18AN4N9B80□	4.9nH ±0.1nH	100MHz	1200mA	0.081Ω	23	250MHz	7300MHz
LQW18AN4N9C80□	4.9nH ±0.2nH	100MHz	1200mA	0.081Ω	23	250MHz	7300MHz
LQW18AN4N9G80□	4.9nH ±2%	100MHz	1200mA	0.081Ω	23	250MHz	7300MHz
LQW18AN5N6C80□	5.6nH ±0.2nH	100MHz	1900mA	0.04Ω	38	250MHz	6650MHz
LQW18AN5N6G80□	5.6nH ±2%	100MHz	1900mA	0.040Ω	38	250MHz	6650MHz
LQW18AN6N0C80□	6.0nH ±0.2nH	100MHz	1900mA	0.04Ω	40	250MHz	6650MHz
LQW18AN6N0G80□	6nH ±2%	100MHz	1900mA	0.040Ω	40	250MHz	6650MHz
LQW18AN6N5C80□	6.5nH ±0.2nH	100MHz	1900mA	0.04Ω	40	250MHz	6650MHz

Operating Temperature Range (Self-temperature rise is not included): -55~125°C

For reflow soldering only.

Continued on the following page.

● This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

△Note:

1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

 Continued from the preceding page.

Part Number	Inductance	Inductance Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Q Test Frequency	Self-Resonance Frequency (min.)
LQW18AN6N5G80□	6.5nH ±2%	100MHz	1900mA	0.040Ω	40	250MHz	6650MHz
LQW18AN6N8C80□	6.8nH ±0.2nH	100MHz	1900mA	0.04Ω	40	250MHz	6650MHz
LQW18AN6N8G80□	6.8nH ±2%	100MHz	1900mA	0.040Ω	40	250MHz	6650MHz
LQW18AN7N2C80□	7.2nH ±0.2nH	100MHz	1900mA	0.04Ω	38	250MHz	6650MHz
LQW18AN7N2G80□	7.2nH ±2%	100MHz	1900mA	0.040Ω	38	250MHz	6650MHz
LQW18AN7N5C80□	7.5nH ±0.2nH	100MHz	1500mA	0.048Ω	35	250MHz	7000MHz
LQW18AN7N5G80□	7.5nH ±2%	100MHz	1500mA	0.048Ω	35	250MHz	7000MHz
LQW18AN8N2C80□	8.2nH ±0.2nH	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN8N2G80□	8.2nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN8N4C80□	8.4nH ±0.2nH	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN8N4G80□	8.4nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN8N7C80□	8.7nH ±0.2nH	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN8N7G80□	8.7nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN9N1C80□	9.1nH ±0.2nH	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN9N1G80□	9.1nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN9N5C80□	9.5nH ±0.2nH	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN9N5G80□	9.5nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN9N9C80□	9.9nH ±0.2nH	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN9N9G80□	9.9nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN10NG80□	10nH ±2%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN10NJ80□	10nH ±5%	100MHz	1600mA	0.052Ω	38	250MHz	4750MHz
LQW18AN11NG80□	11nH ±2%	100MHz	1600mA	0.052Ω	40	250MHz	4750MHz
LQW18AN11NJ80□	11nH ±5%	100MHz	1600mA	0.052Ω	40	250MHz	4750MHz
LQW18AN12NG80□	12nH ±2%	100MHz	1500mA	0.064Ω	37	250MHz	5000MHz
LQW18AN12NJ80□	12nH ±5%	100MHz	1500mA	0.064Ω	37	250MHz	5000MHz
LQW18AN13NG80□	13nH ±2%	100MHz	1500mA	0.064Ω	37	250MHz	5000MHz
LQW18AN13NJ80□	13nH ±5%	100MHz	1500mA	0.064Ω	37	250MHz	5000MHz
LQW18AN15NG80□	15nH ±2%	100MHz	1400mA	0.075Ω	38	250MHz	4600MHz
LQW18AN15NJ80□	15nH ±5%	100MHz	1400mA	0.075Ω	38	250MHz	4600MHz
LQW18AN16NG80□	16nH ±2%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN16NJ80□	16nH ±5%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN17NG80□	17nH ±2%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN17NJ80□	17nH ±5%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN18NG80□	18nH ±2%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN18NJ80□	18nH ±5%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN19NG80□	19nH ±2%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN19NJ80□	19nH ±5%	100MHz	1400mA	0.075Ω	40	250MHz	4600MHz
LQW18AN22NG80□	22nH ±2%	100MHz	1300mA	0.086Ω	40	250MHz	3450MHz
LQW18AN22NJ80□	22nH ±5%	100MHz	1300mA	0.086Ω	40	250MHz	3450MHz
LQW18AN23NG80□	23nH ±2%	100MHz	1300mA	0.086Ω	40	250MHz	3450MHz
LQW18AN23NJ80□	23nH ±5%	100MHz	1300mA	0.086Ω	40	250MHz	3450MHz
LQW18AN24NG80□	24nH ±2%	100MHz	1300mA	0.086Ω	40	250MHz	3450MHz
LQW18AN24NJ80□	24nH ±5%	100MHz	1300mA	0.086Ω	40	250MHz	3450MHz
LQW18AN25NG80□	25nH ±2%	100MHz	1200mA	0.098Ω	40	250MHz	3600MHz
LQW18AN25NJ80□	25nH ±5%	100MHz	1200mA	0.098Ω	40	250MHz	3600MHz

Operating Temperature Range (Self-temperature rise is not included): -55~125°C

For reflow soldering only.

Continued on the following page. 

● This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

⚠ Note:

1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

 Continued from the preceding page.

Part Number	Inductance	Inductance Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Q Test Frequency	Self-Resonance Frequency (min.)
LQW18AN27NG80□	27nH ±2%	100MHz	1200mA	0.098Ω	40	250MHz	3600MHz
LQW18AN27NJ80□	27nH ±5%	100MHz	1200mA	0.098Ω	40	250MHz	3600MHz
LQW18AN28NG80□	28nH ±2%	100MHz	1200mA	0.098Ω	40	250MHz	3600MHz
LQW18AN28NJ80□	28nH ±5%	100MHz	1200mA	0.098Ω	40	250MHz	3600MHz
LQW18AN30NG80□	30nH ±2%	100MHz	1100mA	0.12Ω	40	250MHz	2880MHz
LQW18AN30NJ80□	30nH ±5%	100MHz	1100mA	0.12Ω	40	250MHz	2880MHz
LQW18AN31NG80□	31nH ±2%	100MHz	1100mA	0.11Ω	40	250MHz	3150MHz
LQW18AN31NJ80□	31nH ±5%	100MHz	1100mA	0.11Ω	40	250MHz	3150MHz
LQW18AN33NG80□	33nH ±2%	100MHz	1100mA	0.11Ω	40	250MHz	3150MHz
LQW18AN33NJ80□	33nH ±5%	100MHz	1100mA	0.11Ω	40	250MHz	3150MHz
LQW18AN34NG80□	34nH ±2%	100MHz	1050mA	0.15Ω	40	250MHz	3000MHz
LQW18AN34NJ80□	34nH ±5%	100MHz	1050mA	0.15Ω	40	250MHz	3000MHz
LQW18AN36NG80□	36nH ±2%	100MHz	910mA	0.20Ω	37	250MHz	3000MHz
LQW18AN36NJ80□	36nH ±5%	100MHz	910mA	0.20Ω	37	250MHz	3000MHz
LQW18AN37NG80□	37nH ±2%	100MHz	910mA	0.20Ω	37	250MHz	3000MHz
LQW18AN37NJ80□	37nH ±5%	100MHz	910mA	0.20Ω	37	250MHz	3000MHz
LQW18AN39NG80□	39nH ±2%	100MHz	1000mA	0.16Ω	40	250MHz	3280MHz
LQW18AN39NJ80□	39nH ±5%	100MHz	1000mA	0.16Ω	40	250MHz	3280MHz
LQW18AN41NG80□	41nH ±2%	100MHz	1000mA	0.16Ω	40	250MHz	3280MHz
LQW18AN41NJ80□	41nH ±5%	100MHz	1000mA	0.16Ω	40	250MHz	3280MHz
LQW18AN43NG80□	43nH ±2%	100MHz	840mA	0.21Ω	40	250MHz	2780MHz
LQW18AN43NJ80□	43nH ±5%	100MHz	840mA	0.21Ω	40	250MHz	2780MHz
LQW18AN44NG80□	44nH ±2%	100MHz	840mA	0.21Ω	40	250MHz	2780MHz
LQW18AN44NJ80□	44nH ±5%	100MHz	840mA	0.21Ω	40	250MHz	2780MHz
LQW18AN47NG80□	47nH ±2%	100MHz	830mA	0.23Ω	32	200MHz	2700MHz
LQW18AN47NJ80□	47nH ±5%	100MHz	830mA	0.23Ω	32	200MHz	2700MHz
LQW18AN48NG80□	48nH ±2%	100MHz	830mA	0.23Ω	32	200MHz	2700MHz
LQW18AN48NJ80□	48nH ±5%	100MHz	830mA	0.23Ω	32	200MHz	2700MHz
LQW18AN51NG80□	51nH ±2%	100MHz	830mA	0.23Ω	32	200MHz	2700MHz
LQW18AN51NJ80□	51nH ±5%	100MHz	830mA	0.23Ω	32	200MHz	2700MHz
LQW18AN52NG80□	52nH ±2%	100MHz	750mA	0.27Ω	35	200MHz	2750MHz
LQW18AN52NJ80□	52nH ±5%	100MHz	750mA	0.27Ω	35	200MHz	2750MHz
LQW18AN56NG80□	56nH ±2%	100MHz	770mA	0.26Ω	38	200MHz	2600MHz
LQW18AN56NJ80□	56nH ±5%	100MHz	770mA	0.26Ω	38	200MHz	2600MHz
LQW18AN58NG80□	58nH ±2%	100MHz	700mA	0.30Ω	35	200MHz	2400MHz
LQW18AN58NJ80□	58nH ±5%	100MHz	700mA	0.30Ω	35	200MHz	2400MHz
LQW18AN68NG80□	68nH ±2%	100MHz	630mA	0.38Ω	37	200MHz	2380MHz
LQW18AN68NJ80□	68nH ±5%	100MHz	630mA	0.38Ω	37	200MHz	2380MHz
LQW18AN69NG80□	69nH ±2%	100MHz	630mA	0.38Ω	37	200MHz	2380MHz
LQW18AN69NJ80□	69nH ±5%	100MHz	630mA	0.38Ω	37	200MHz	2380MHz
LQW18AN72NG80□	72nH ±2%	100MHz	560mA	0.47Ω	34	150MHz	2330MHz
LQW18AN72NJ80□	72nH ±5%	100MHz	560mA	0.47Ω	34	150MHz	2330MHz
LQW18AN73NG80□	73nH ±2%	100MHz	590mA	0.41Ω	28	150MHz	2280MHz
LQW18AN73NJ80□	73nH ±5%	100MHz	590mA	0.41Ω	28	150MHz	2280MHz
LQW18AN75NG80□	75nH ±2%	100MHz	590mA	0.41Ω	28	150MHz	2280MHz

Operating Temperature Range (Self-temperature rise is not included): -55~125°C

For reflow soldering only.

Continued on the following page. 

● This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

⚠ Note:

1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

 Continued from the preceding page.

Part Number	Inductance	Inductance Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Q Test Frequency	Self-Resonance Frequency (min.)
LQW18AN75NJ80□	75nH ±5%	100MHz	590mA	0.41 Ω	28	150MHz	2280MHz
LQW18AN78NG80□	78nH ±2%	100MHz	590mA	0.41 Ω	28	150MHz	2280MHz
LQW18AN78NJ80□	78nH ±5%	100MHz	590mA	0.41 Ω	28	150MHz	2280MHz
LQW18AN82NG80□	82nH ±2%	100MHz	550mA	0.5 Ω	34	150MHz	2230MHz
LQW18AN82NJ80□	82nH ±5%	100MHz	550mA	0.5 Ω	34	150MHz	2230MHz
LQW18AN83NG80□	83nH ±2%	100MHz	550mA	0.5 Ω	34	150MHz	2230MHz
LQW18AN83NJ80□	83nH ±5%	100MHz	550mA	0.5 Ω	34	150MHz	2230MHz
LQW18AN91NG80□	91nH ±2%	100MHz	520mA	0.54 Ω	33	150MHz	1900MHz
LQW18AN91NJ80□	91nH ±5%	100MHz	520mA	0.54 Ω	33	150MHz	1900MHz
LQW18AN94NG80□	94nH ±2%	100MHz	490mA	0.63 Ω	34	150MHz	1750MHz
LQW18AN94NJ80□	94nH ±5%	100MHz	490mA	0.63 Ω	34	150MHz	1750MHz
LQW18ANR10G80□	100nH ±2%	100MHz	490mA	0.63 Ω	34	150MHz	1750MHz
LQW18ANR10J80□	100nH ±5%	100MHz	490mA	0.63 Ω	34	150MHz	1750MHz
LQW18ANR11G80□	110nH ±2%	100MHz	450mA	0.7 Ω	32	150MHz	1730MHz
LQW18ANR11J80□	110nH ±5%	100MHz	450mA	0.7 Ω	32	150MHz	1730MHz
LQW18ANR12G80□	120nH ±2%	100MHz	450mA	0.72 Ω	32	150MHz	1650MHz
LQW18ANR12J80□	120nH ±5%	100MHz	450mA	0.72 Ω	32	150MHz	1650MHz
LQW18ANR15G80□	150nH ±2%	100MHz	420mA	0.87 Ω	28	150MHz	1580MHz
LQW18ANR15J80□	150nH ±5%	100MHz	420mA	0.87 Ω	28	150MHz	1580MHz
LQW18ANR18G80□	180nH ±2%	100MHz	310mA	1.65 Ω	25	100MHz	1380MHz
LQW18ANR18J80□	180nH ±5%	100MHz	310mA	1.65 Ω	25	100MHz	1380MHz
LQW18ANR20G80□	200nH ±2%	100MHz	290mA	1.74 Ω	25	100MHz	1350MHz
LQW18ANR20J80□	200nH ±5%	100MHz	290mA	1.74 Ω	25	100MHz	1350MHz
LQW18ANR21G80□	210nH ±2%	100MHz	280mA	1.98 Ω	27	100MHz	1330MHz
LQW18ANR21J80□	210nH ±5%	100MHz	280mA	1.98 Ω	27	100MHz	1330MHz
LQW18ANR22G80□	220nH ±2%	100MHz	280mA	2.08 Ω	25	100MHz	1330MHz
LQW18ANR22J80□	220nH ±5%	100MHz	280mA	2.08 Ω	25	100MHz	1330MHz
LQW18ANR25G80□	250nH ±2%	100MHz	250mA	2.28 Ω	24	100MHz	1330MHz
LQW18ANR25J80□	250nH ±5%	100MHz	250mA	2.28 Ω	24	100MHz	1330MHz
LQW18ANR27G80□	270nH ±2%	100MHz	260mA	2.42 Ω	24	100MHz	1250MHz
LQW18ANR27J80□	270nH ±5%	100MHz	260mA	2.42 Ω	24	100MHz	1250MHz
LQW18ANR30G80□	300nH ±2%	100MHz	220mA	3.12 Ω	25	100MHz	1200MHz
LQW18ANR30J80□	300nH ±5%	100MHz	220mA	3.12 Ω	25	100MHz	1200MHz
LQW18ANR33G80□	330nH ±2%	100MHz	190mA	3.84 Ω	25	100MHz	1100MHz
LQW18ANR33J80□	330nH ±5%	100MHz	190mA	3.84 Ω	25	100MHz	1100MHz
LQW18ANR36G80□	360nH ±2%	100MHz	190mA	3.98 Ω	25	100MHz	1050MHz
LQW18ANR36J80□	360nH ±5%	100MHz	190mA	3.98 Ω	25	100MHz	1050MHz
LQW18ANR39G80□	390nH ±2%	100MHz	190mA	4.23 Ω	25	100MHz	1100MHz
LQW18ANR39J80□	390nH ±5%	100MHz	190mA	4.23 Ω	25	100MHz	1100MHz

Operating Temperature Range (Self-temperature rise is not included): -55~125°C
For reflow soldering only.

Continued on the following page. 

● This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

Note:

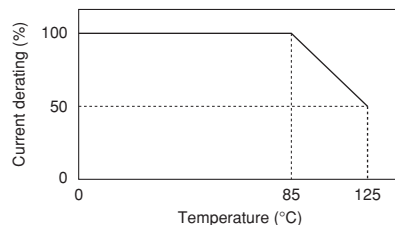
1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

Continued from the preceding page.

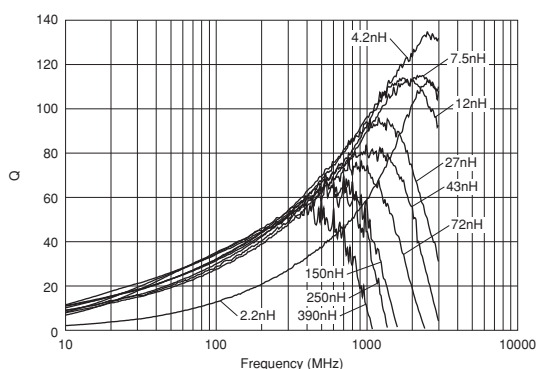
Derating of Rated Current

In operating temperature exceeding +85°C, derating of current is necessary for LQW18AN_80 series. Please apply the derating curve shown in chart according to the operating temperature.

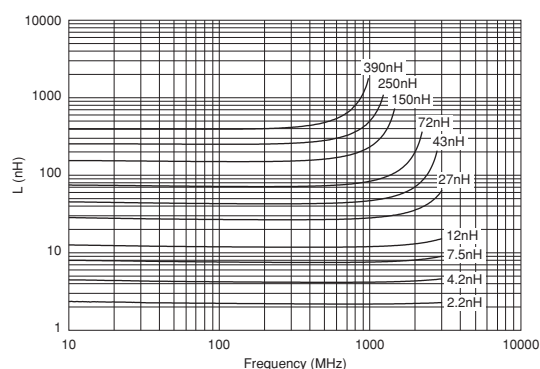
Derating of Rated Current



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.

This data sheet is applied for INDUCTORS (COILS) used for General Electronics equipment for your design.

Note:

1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.