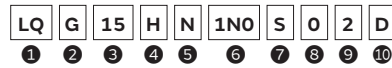


	Series	Structure	Size Code in inch (in mm)	Inductance Range (H)										Rated Current (A)						
				0.1n	1n	10n	100n	1μ	10μ	100μ	1m	10m	10m	100m	1	10	100			
RF Inductors	LQG15HN_02 p201	Multilayer Type	0402 (1005)	1nH	120nH											150mA	1A			
	LQG15HS_02 p204		0402 (1005)	1nH	270nH												110mA	1A		
	LQG18HN_00 p208		0603 (1608)	1.2nH	100nH												350mA	1.1A		
	LQW21HN_00 p289	Wire Wound Ferrite Core Type	0805 (2012)			470nH	2.2μH									75mA	160mA			
	LQP02HQ_02 p210	Film Type	01005 (0402)	0.2nH	56nH											100mA	1A			
	LQP02TN_02 p214		01005 (0402)	0.2nH	39nH											90mA	320mA			
	LQP02TQ_02 p218		01005 (0402)	0.2nH	22nH											120mA	990mA			
	LQP03HQ_02 p221		0201 (0603)	0.6nH	150nH											80mA	1.1A			
	LQP03PN_02 p225		0201 (0603)	2.2nH	4.7nH											900mA	1.4A			
	LQP03TG_02 p227		0201 (0603)	0.1nH	120nH											80mA	850mA			
	LQP03TN_02 p231		0201 (0603)	0.6nH	270nH											60mA	850mA			
	LQP03TQ_02 p235		0201 (0603)	0.6nH	13nH											250mA	1A			
	LQP15MN_02 p238		0402 (1005)	1nH	33nH											60mA	400mA			
	LQP18MN_02 p240		0603 (1608)	1.3nH	100nH											50mA	300mA			
	LQW03AW_00 p242		Wire Wound Non-Magnetic Core Type	0201 (0603)	1nH	15.5nH											230mA	900mA		
	LQW04AN_00 p244			03015 (0804)	0.8nH	33nH											140mA	1.8A		
	LQW04AN_10 p249	03015 (0804)			36nH	56nH										180mA	200mA			
	LQW15AN_00 p250	0402 (1005)		1.5nH	120nH											110mA	1A			
	LQW15AN_10 p256	0402 (1005)		1.3nH	8.4nH											640mA	1.2A			
	LQW15AN_80 p258	0402 (1005)		1.3nH	75nH											320mA	3.15A			
	LQW18AN_00 p265	0603 (1608)		2.2nH	470nH											75mA	850mA			
	LQW18AN_10 p268	0603 (1608)		2.2nH	33nH											550mA	1.4A			
	LQW18AN_80 p270	0603 (1608)		2.2nH	390nH											190mA	3.2A			
	LQW18AS_00 p275	0603 (1608)		1.6nH	390nH											100mA	700mA			
	LQW2BAN_00 p278	0805 (2015)		3.2nH	200nH											750mA	3.8A			
	LQW2BAS_00 p281	0805 (2015)		2.8nH	820nH											180mA	800mA			
	LQW2BHN_03 p283	0805 (2015)		3.3nH	470nH											160mA	1.32A			
	LQW2BHN_13 p285	0805 (2015)		2.7nH	27nH											900mA	1.9A			
	LQW2UAS_00 p286	1008 (2520)			12nH	4.7μH										260mA	1A			
	LQW31HN_03 p290	1206 (3216)			8.8nH	100nH										230mA	750mA			

## ● Part Numbering

### RF Inductors

(Part Number)



#### ① Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

#### ② Structure

Code	Structure
G	Multilayer Type (Air-core Inductors (Coils))
H	Wire Wound Type (Ferrite Core)
P	Film Type
W	Wire Wound Type (Air-core Inductors (Coils))
	Wire Wound Type (Ferrite Core)

#### ② Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
02	0.4×0.2mm	01005
03	0.6×0.3mm	0201
04	0.8×0.4mm	03015
15	1.0×0.5mm	0402
18	1.6×0.8mm	0603
21	2.0×1.25mm	0805
2B	2.0×1.5mm	0805
2U	2.5×2.0mm	1008
31	3.2×1.6mm	1206

#### ④ Applications and Characteristics

Code	Series	Applications and Characteristics
H	LQG	Multilayer Air-core Inductors (Coils)
	LQP	Film Type (High Q Type)
M	LQP	Film Type
P		Film Type (For Large Current)
T		Film Type (Low DC Resistance Type)
A	LQW	High Q Type (UHF-SHF)
H		High Q Type (VHF-UHF)
H	LQH	for High-frequency Resonant Circuit

#### ⑤ Category

Code	Category	
G/N	General	
S		Standard Type
Q		High Q Type
W		Specialty Dimensions

#### ⑩ Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	LQH/LQW□□H*2
L/E	Embossed Taping (ø180mm Reel)	LQH/LQW2BA/LQW2UA/LQW□□H/LQP
B	Bulk	LQW/LQG/LQP
J	Paper Taping (ø330mm Reel)	LQW18A/LQG/LQP*1
D	Paper Taping (ø180mm Reel)	LQW□□A*3 /LQG/LQP

\*1 Except for LQP02T \*2 Except for LQW21H \*3 Except for LQW2BA/LQW2UA

#### ⑥ Inductance

Expressed by three-digit alphanumeric. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than 0.1μH, the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

#### ⑦ Inductance Tolerance

Code	Inductance Tolerance
B	±0.1nH
C	±0.2nH
D	±0.5nH
F	±1%
G	±2%
H	±3%
J	±5%
K	±10%
S	±0.3nH
W	±0.05nH

#### ⑧ Features

Code	Features	Series
0	Standard Type	LQG/LQP/LQW/LQH*1
1	High-Q/Low DC Resistance	LQW15A/18A/2BH
8	Low DC Resistance, Large Rated Current	LQW15A/LQW18A

\*1 Except for LQH32 Series

#### ⑨ Electrode

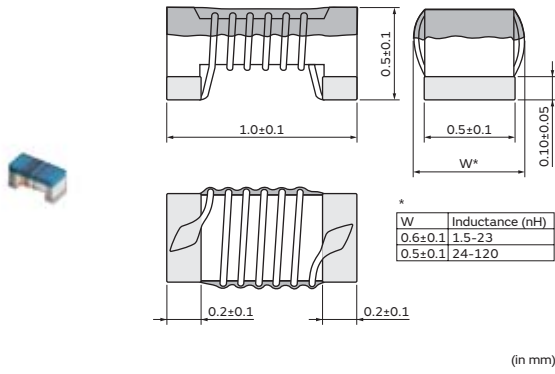
•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQG18H/LQW□□A/LQW□□C
2		LQG15H/LQP02T/LQP03T/ LQP15T/LQP□□M
3	LF Solder	LQW□□H/LQH

## RF Inductors

# LQW15AN\_00 Series 0402 (1005) inch (mm)

### Appearance/Dimensions



### Packaging

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

### Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN1N5B00□	1.5nH ±0.1nH	100MHz	10	250MHz	1000mA	0.03Ω	18.0GHz
LQW15AN1N5C00□	1.5nH ±0.2nH	100MHz	10	250MHz	1000mA	0.03Ω	18.0GHz
LQW15AN1N5D00□	1.5nH ±0.5nH	100MHz	10	250MHz	1000mA	0.03Ω	18.0GHz
LQW15AN1N6C00□	1.6nH ±0.2nH	100MHz	10	250MHz	750mA	0.07Ω	17.0GHz
LQW15AN1N6D00□	1.6nH ±0.5nH	100MHz	10	250MHz	750mA	0.07Ω	17.0GHz
LQW15AN1N7C00□	1.7nH ±0.2nH	100MHz	10	250MHz	640mA	0.10Ω	17.0GHz
LQW15AN1N7D00□	1.7nH ±0.5nH	100MHz	10	250MHz	640mA	0.10Ω	17.0GHz
LQW15AN1N8C00□	1.8nH ±0.2nH	100MHz	10	250MHz	460mA	0.16Ω	16.0GHz
LQW15AN1N8D00□	1.8nH ±0.5nH	100MHz	10	250MHz	460mA	0.16Ω	16.0GHz
LQW15AN2N4B00□	2.4nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N4C00□	2.4nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N4D00□	2.4nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N5B00□	2.5nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N5C00□	2.5nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N5D00□	2.5nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N6B00□	2.6nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N6C00□	2.6nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N6D00□	2.6nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N7B00□	2.7nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N7C00□	2.7nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N7D00□	2.7nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N8B00□	2.8nH ±0.1nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N8C00□	2.8nH ±0.2nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N8D00□	2.8nH ±0.5nH	100MHz	20	250MHz	850mA	0.05Ω	15.0GHz
LQW15AN2N9B00□	2.9nH ±0.1nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN2N9C00□	2.9nH ±0.2nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN2N9D00□	2.9nH ±0.5nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N0B00□	3.0nH ±0.1nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N0C00□	3.0nH ±0.2nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N0D00□	3.0nH ±0.5nH	100MHz	20	250MHz	750mA	0.07Ω	15.0GHz
LQW15AN3N1B00□	3.1nH ±0.1nH	100MHz	20	250MHz	570mA	0.13Ω	14.0GHz
LQW15AN3N1C00□	3.1nH ±0.2nH	100MHz	20	250MHz	570mA	0.13Ω	14.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN3N1D00□	3.1nH ±0.5nH	100MHz	20	250MHz	570mA	0.13Ω	14.0GHz
LQW15AN3N2B00□	3.2nH ±0.1nH	100MHz	15	250MHz	500mA	0.17Ω	14.0GHz
LQW15AN3N2C00□	3.2nH ±0.2nH	100MHz	15	250MHz	500mA	0.17Ω	14.0GHz
LQW15AN3N2D00□	3.2nH ±0.5nH	100MHz	15	250MHz	500mA	0.17Ω	14.0GHz
LQW15AN3N9B00□	3.9nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN3N9C00□	3.9nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN3N9D00□	3.9nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N1B00□	4.1nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N1C00□	4.1nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N1D00□	4.1nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N3B00□	4.3nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N3C00□	4.3nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N3D00□	4.3nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	10.0GHz
LQW15AN4N4B00□	4.4nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N4C00□	4.4nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N4D00□	4.4nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N5B00□	4.5nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N5C00□	4.5nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N5D00□	4.5nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N6B00□	4.6nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N6C00□	4.6nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N6D00□	4.6nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N7B00□	4.7nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N7C00□	4.7nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N7D00□	4.7nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N8B00□	4.8nH ±0.1nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N8C00□	4.8nH ±0.2nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N8D00□	4.8nH ±0.5nH	100MHz	25	250MHz	750mA	0.07Ω	8.0GHz
LQW15AN4N9B00□	4.9nH ±0.1nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN4N9C00□	4.9nH ±0.2nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN4N9D00□	4.9nH ±0.5nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N0B00□	5.0nH ±0.1nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N0C00□	5.0nH ±0.2nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N0D00□	5.0nH ±0.5nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N1B00□	5.1nH ±0.1nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N1C00□	5.1nH ±0.2nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N1D00□	5.1nH ±0.5nH	100MHz	25	250MHz	600mA	0.12Ω	8.0GHz
LQW15AN5N8B00□	5.8nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN5N8C00□	5.8nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN5N8D00□	5.8nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N2B00□	6.2nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N2C00□	6.2nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N2D00□	6.2nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	8.0GHz
LQW15AN6N3B00□	6.3nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N3C00□	6.3nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N3D00□	6.3nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N4B00□	6.4nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N4C00□	6.4nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N4D00□	6.4nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N5B00□	6.5nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N5C00□	6.5nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N5D00□	6.5nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N6B00□	6.6nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN6N6C00□	6.6nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N6D00□	6.6nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N7B00□	6.7nH ±0.1nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N7C00□	6.7nH ±0.2nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N7D00□	6.7nH ±0.5nH	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N8G00□	6.8nH ±2%	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N8H00□	6.8nH ±3%	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N8J00□	6.8nH ±5%	100MHz	25	250MHz	700mA	0.09Ω	6.0GHz
LQW15AN6N9G00□	6.9nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN6N9H00□	6.9nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN6N9J00□	6.9nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N0G00□	7.0nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N0H00□	7.0nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N0J00□	7.0nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N1G00□	7.1nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N1H00□	7.1nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N1J00□	7.1nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N2G00□	7.2nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N2H00□	7.2nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N2J00□	7.2nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N3G00□	7.3nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N3H00□	7.3nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N3J00□	7.3nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N5G00□	7.5nH ±2%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N5H00□	7.5nH ±3%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN7N5J00□	7.5nH ±5%	100MHz	25	250MHz	570mA	0.13Ω	6.0GHz
LQW15AN8N2G00□	8.2nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N2H00□	8.2nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N2J00□	8.2nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N6G00□	8.6nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N6H00□	8.6nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N6J00□	8.6nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N7G00□	8.7nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N7H00□	8.7nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N7J00□	8.7nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N8G00□	8.8nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N8H00□	8.8nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N8J00□	8.8nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N9G00□	8.9nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N9H00□	8.9nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN8N9J00□	8.9nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N0G00□	9.0nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N0H00□	9.0nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N0J00□	9.0nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N1G00□	9.1nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N1H00□	9.1nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N1J00□	9.1nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N2G00□	9.2nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N2H00□	9.2nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N2J00□	9.2nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N3G00□	9.3nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N3H00□	9.3nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N3J00□	9.3nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN9N4G00□	9.4nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N4H00□	9.4nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N4J00□	9.4nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N5G00□	9.5nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N5H00□	9.5nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N5J00□	9.5nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N6G00□	9.6nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N6H00□	9.6nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N6J00□	9.6nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N7G00□	9.7nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N7H00□	9.7nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N7J00□	9.7nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N8G00□	9.8nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N8H00□	9.8nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N8J00□	9.8nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N9G00□	9.9nH ±2%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N9H00□	9.9nH ±3%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN9N9J00□	9.9nH ±5%	100MHz	25	250MHz	540mA	0.14Ω	5.5GHz
LQW15AN10NG00□	10nH ±2%	100MHz	25	250MHz	500mA	0.17Ω	5.5GHz
LQW15AN10NH00□	10nH ±3%	100MHz	25	250MHz	500mA	0.17Ω	5.5GHz
LQW15AN10NJ00□	10nH ±5%	100MHz	25	250MHz	500mA	0.17Ω	5.5GHz
LQW15AN11NG00□	11nH ±2%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN11NH00□	11nH ±3%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN11NJ00□	11nH ±5%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN12NG00□	12nH ±2%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN12NH00□	12nH ±3%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN12NJ00□	12nH ±5%	100MHz	30	250MHz	500mA	0.14Ω	5.5GHz
LQW15AN13NG00□	13nH ±2%	100MHz	25	250MHz	430mA	0.21Ω	5.0GHz
LQW15AN13NH00□	13nH ±3%	100MHz	25	250MHz	430mA	0.21Ω	5.0GHz
LQW15AN13NJ00□	13nH ±5%	100MHz	25	250MHz	430mA	0.21Ω	5.0GHz
LQW15AN15NG00□	15nH ±2%	100MHz	30	250MHz	460mA	0.16Ω	5.0GHz
LQW15AN15NH00□	15nH ±3%	100MHz	30	250MHz	460mA	0.16Ω	5.0GHz
LQW15AN15NJ00□	15nH ±5%	100MHz	30	250MHz	460mA	0.16Ω	5.0GHz
LQW15AN16NG00□	16nH ±2%	100MHz	25	250MHz	370mA	0.24Ω	4.5GHz
LQW15AN16NH00□	16nH ±3%	100MHz	25	250MHz	370mA	0.24Ω	4.5GHz
LQW15AN16NJ00□	16nH ±5%	100MHz	25	250MHz	370mA	0.24Ω	4.5GHz
LQW15AN18NG00□	18nH ±2%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN18NH00□	18nH ±3%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN18NJ00□	18nH ±5%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN19NG00□	19nH ±2%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN19NH00□	19nH ±3%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN19NJ00□	19nH ±5%	100MHz	25	250MHz	370mA	0.27Ω	4.5GHz
LQW15AN20NG00□	20nH ±2%	100MHz	25	250MHz	370mA	0.27Ω	4.0GHz
LQW15AN20NH00□	20nH ±3%	100MHz	25	250MHz	370mA	0.27Ω	4.0GHz
LQW15AN20NJ00□	20nH ±5%	100MHz	25	250MHz	370mA	0.27Ω	4.0GHz
LQW15AN22NG00□	22nH ±2%	100MHz	25	250MHz	310mA	0.30Ω	4.0GHz
LQW15AN22NH00□	22nH ±3%	100MHz	25	250MHz	310mA	0.30Ω	4.0GHz
LQW15AN22NJ00□	22nH ±5%	100MHz	25	250MHz	310mA	0.30Ω	4.0GHz
LQW15AN23NG00□	23nH ±2%	100MHz	25	250MHz	310mA	0.30Ω	3.8GHz
LQW15AN23NH00□	23nH ±3%	100MHz	25	250MHz	310mA	0.30Ω	3.8GHz
LQW15AN23NJ00□	23nH ±5%	100MHz	25	250MHz	310mA	0.30Ω	3.8GHz
LQW15AN24NG00□	24nH ±2%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN24NH00□	24nH ±3%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C  
 For reflow soldering only  
 \*S.R.F.: Self-Resonant Frequency

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN24NJ00□	24nH ±5%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN27NG00□	27nH ±2%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN27NH00□	27nH ±3%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN27NJ00□	27nH ±5%	100MHz	25	250MHz	280mA	0.52Ω	3.5GHz
LQW15AN30NG00□	30nH ±2%	100MHz	25	250MHz	270mA	0.58Ω	3.3GHz
LQW15AN30NH00□	30nH ±3%	100MHz	25	250MHz	270mA	0.58Ω	3.3GHz
LQW15AN30NJ00□	30nH ±5%	100MHz	25	250MHz	270mA	0.58Ω	3.3GHz
LQW15AN33NG00□	33nH ±2%	100MHz	25	250MHz	260mA	0.63Ω	3.2GHz
LQW15AN33NH00□	33nH ±3%	100MHz	25	250MHz	260mA	0.63Ω	3.2GHz
LQW15AN33NJ00□	33nH ±5%	100MHz	25	250MHz	260mA	0.63Ω	3.2GHz
LQW15AN36NG00□	36nH ±2%	100MHz	25	250MHz	260mA	0.63Ω	3.1GHz
LQW15AN36NH00□	36nH ±3%	100MHz	25	250MHz	260mA	0.63Ω	3.1GHz
LQW15AN36NJ00□	36nH ±5%	100MHz	25	250MHz	260mA	0.63Ω	3.1GHz
LQW15AN39NG00□	39nH ±2%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN39NH00□	39nH ±3%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN39NJ00□	39nH ±5%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN40NG00□	40nH ±2%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN40NH00□	40nH ±3%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN40NJ00□	40nH ±5%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN43NG00□	43nH ±2%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN43NH00□	43nH ±3%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN43NJ00□	43nH ±5%	100MHz	25	250MHz	250mA	0.70Ω	3.0GHz
LQW15AN47NG00□	47nH ±2%	100MHz	25	200MHz	210mA	1.08Ω	2.9GHz
LQW15AN47NH00□	47nH ±3%	100MHz	25	200MHz	210mA	1.08Ω	2.9GHz
LQW15AN47NJ00□	47nH ±5%	100MHz	25	200MHz	210mA	1.08Ω	2.9GHz
LQW15AN51NG00□	51nH ±2%	100MHz	25	200MHz	210mA	1.08Ω	2.85GHz
LQW15AN51NH00□	51nH ±3%	100MHz	25	200MHz	210mA	1.08Ω	2.85GHz
LQW15AN51NJ00□	51nH ±5%	100MHz	25	200MHz	210mA	1.08Ω	2.85GHz
LQW15AN56NG00□	56nH ±2%	100MHz	25	200MHz	200mA	1.17Ω	2.8GHz
LQW15AN56NH00□	56nH ±3%	100MHz	25	200MHz	200mA	1.17Ω	2.8GHz
LQW15AN56NJ00□	56nH ±5%	100MHz	25	200MHz	200mA	1.17Ω	2.8GHz
LQW15AN62NG00□	62nH ±2%	100MHz	20	200MHz	145mA	1.82Ω	2.6GHz
LQW15AN62NH00□	62nH ±3%	100MHz	20	200MHz	145mA	1.82Ω	2.6GHz
LQW15AN62NJ00□	62nH ±5%	100MHz	20	200MHz	145mA	1.82Ω	2.6GHz
LQW15AN68NG00□	68nH ±2%	100MHz	20	200MHz	140mA	1.96Ω	2.5GHz
LQW15AN68NJ00□	68nH ±5%	100MHz	20	200MHz	140mA	1.96Ω	2.5GHz
LQW15AN72NG00□	72nH ±2%	100MHz	20	150MHz	135mA	2.10Ω	2.5GHz
LQW15AN72NJ00□	72nH ±5%	100MHz	20	150MHz	135mA	2.10Ω	2.5GHz
LQW15AN75NG00□	75nH ±2%	100MHz	20	150MHz	135mA	2.10Ω	2.4GHz
LQW15AN75NJ00□	75nH ±5%	100MHz	20	150MHz	135mA	2.10Ω	2.4GHz
LQW15AN82NG00□	82nH ±2%	100MHz	20	150MHz	130mA	2.24Ω	2.3GHz
LQW15AN82NJ00□	82nH ±5%	100MHz	20	150MHz	130mA	2.24Ω	2.3GHz
LQW15AN91NG00□	91nH ±2%	100MHz	20	150MHz	125mA	2.38Ω	2.1GHz
LQW15AN91NJ00□	91nH ±5%	100MHz	20	150MHz	125mA	2.38Ω	2.1GHz
LQW15ANR10J00□	100nH ±5%	100MHz	20	150MHz	120mA	2.52Ω	1.5GHz
LQW15ANR12J00□	120nH ±5%	100MHz	20	150MHz	110mA	2.66Ω	1.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

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Inductors for Power Lines

Inductors for General Circuits

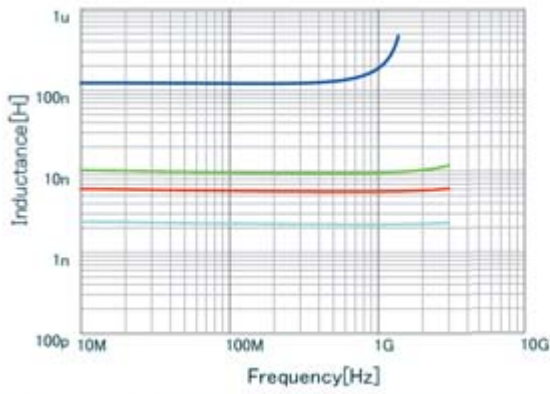
RF Inductors

TOKO Products  
Inductors for Power Lines

TOKO Products  
Inductors for General Circuits

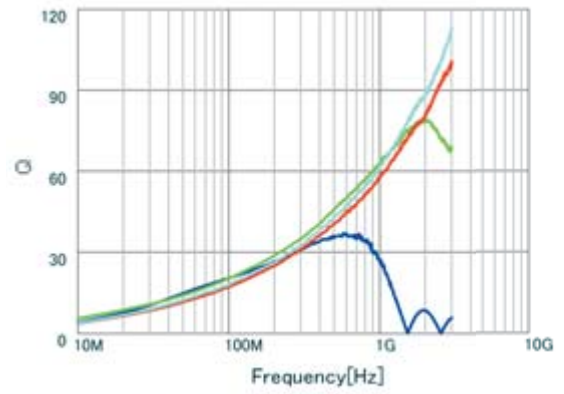
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### Inductance-Frequency Characteristics (Typ.)



<span style="color:blue">■</span>	LQW15ANR12J00 L
<span style="color:green">■</span>	LQW15AN9N6J00 L
<span style="color:red">■</span>	LQW15AN5N8D00 L
<span style="color:cyan">■</span>	LQW15AN2N4D00 L

### Q-Frequency Characteristics (Typ.)



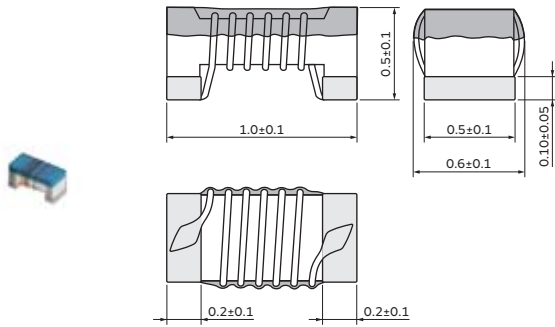
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<span style="color:green">■</span>	LQW15AN9N6J00 Q
<span style="color:red">■</span>	LQW15AN5N8D00 Q
<span style="color:cyan">■</span>	LQW15AN2N4D00 Q



## RF Inductors

# LQW15AN\_10 Series 0402 (1005) inch (mm)

### Appearance/Dimensions



(in mm)

### Packaging

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

### Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN1N3C10□	1.3nH ±0.2nH	100MHz	20	250MHz	1200mA	0.017Ω	16GHz
LQW15AN1N3D10□	1.3nH ±0.5nH	100MHz	20	250MHz	1200mA	0.017Ω	16GHz
LQW15AN1N4C10□	1.4nH ±0.2nH	100MHz	25	250MHz	1100mA	0.019Ω	15GHz
LQW15AN1N4D10□	1.4nH ±0.5nH	100MHz	25	250MHz	1100mA	0.019Ω	15GHz
LQW15AN2N2C10□	2.2nH ±0.2nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N2D10□	2.2nH ±0.5nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N3C10□	2.3nH ±0.2nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N3D10□	2.3nH ±0.5nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN2N4D10□	2.4nH ±0.5nH	100MHz	25	250MHz	1000mA	0.027Ω	14GHz
LQW15AN3N3D10□	3.3nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	12GHz
LQW15AN3N4C10□	3.4nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	12GHz
LQW15AN3N4D10□	3.4nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	12GHz
LQW15AN3N5C10□	3.5nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N5D10□	3.5nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N6C10□	3.6nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N6D10□	3.6nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	9.5GHz
LQW15AN3N8C10□	3.8nH ±0.2nH	100MHz	30	250MHz	900mA	0.040Ω	7GHz
LQW15AN3N8D10□	3.8nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	7GHz
LQW15AN3N9D10□	3.9nH ±0.5nH	100MHz	30	250MHz	900mA	0.040Ω	7GHz
LQW15AN4N0C10□	4.0nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N0D10□	4.0nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N2C10□	4.2nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N2D10□	4.2nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	6.5GHz
LQW15AN4N7D10□	4.7nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N1C10□	5.1nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N1D10□	5.1nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N2C10□	5.2nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N2D10□	5.2nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N3C10□	5.3nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N3D10□	5.3nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N4C10□	5.4nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N4D10□	5.4nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

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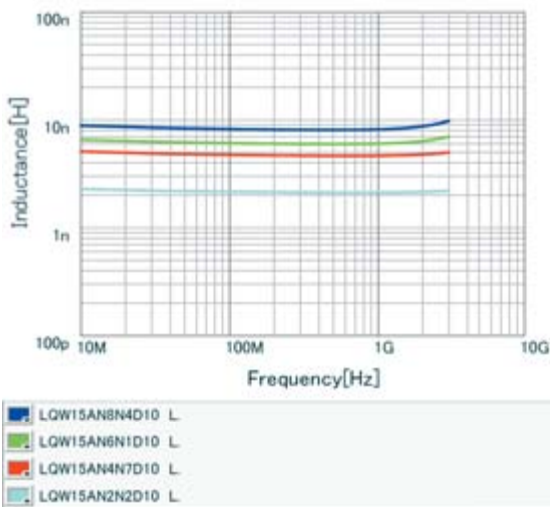
Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN5N5C10□	5.5nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N5D10□	5.5nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N6C10□	5.6nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N6D10□	5.6nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N7C10□	5.7nH ±0.2nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N7D10□	5.7nH ±0.5nH	100MHz	30	250MHz	800mA	0.051Ω	8GHz
LQW15AN5N9C10□	5.9nH ±0.2nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN5N9D10□	5.9nH ±0.5nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N0C10□	6.0nH ±0.2nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N0D10□	6.0nH ±0.5nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N1C10□	6.1nH ±0.2nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN6N1D10□	6.1nH ±0.5nH	100MHz	30	250MHz	760mA	0.056Ω	7.7GHz
LQW15AN7N4C10□	7.4nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N4D10□	7.4nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N6C10□	7.6nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N6D10□	7.6nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N7C10□	7.7nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N7D10□	7.7nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N8C10□	7.8nH ±0.2nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N8D10□	7.8nH ±0.5nH	100MHz	30	250MHz	750mA	0.058Ω	6.8GHz
LQW15AN7N9C10□	7.9nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN7N9D10□	7.9nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N0C10□	8.0nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N0D10□	8.0nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N1C10□	8.1nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N1D10□	8.1nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N3C10□	8.3nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N3D10□	8.3nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N4C10□	8.4nH ±0.2nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz
LQW15AN8N4D10□	8.4nH ±0.5nH	100MHz	30	250MHz	640mA	0.079Ω	7.5GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

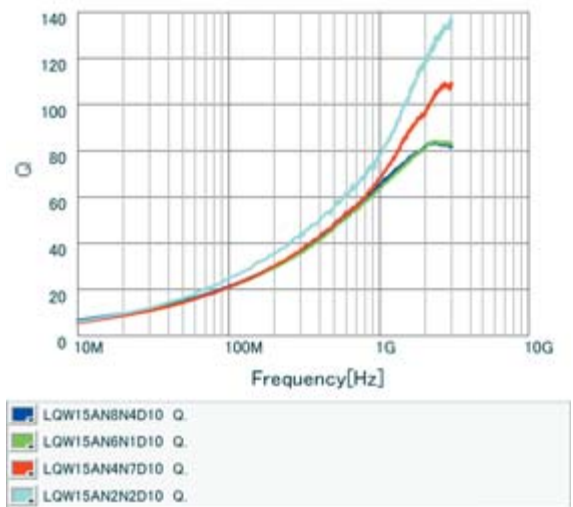
For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

### Inductance-Frequency Characteristics (Typ.)



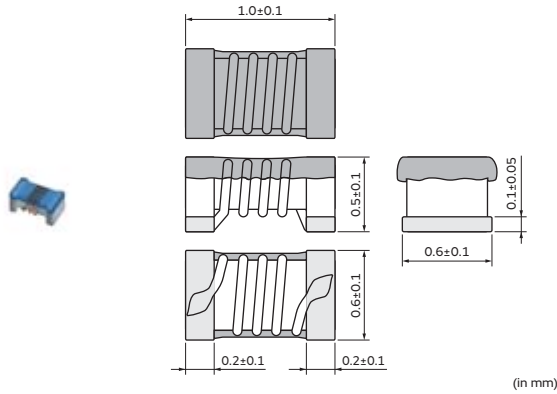
### Q-Frequency Characteristics (Typ.)



## RF Inductors

# LQW15AN\_80 Series 0402 (1005) inch (mm)

### Appearance/Dimensions



### Packaging

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

### Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN1N3C80□	1.3nH ±0.2nH	100MHz	20	250MHz	3150mA	0.012Ω	18.0GHz
LQW15AN1N3D80□	1.3nH ±0.5nH	100MHz	20	250MHz	3150mA	0.012Ω	18.0GHz
LQW15AN1N5C80□	1.5nH ±0.2nH	100MHz	20	250MHz	2100mA	0.028Ω	18.0GHz
LQW15AN1N5D80□	1.5nH ±0.5nH	100MHz	20	250MHz	2100mA	0.028Ω	18.0GHz
LQW15AN1N6C80□	1.6nH ±0.2nH	100MHz	20	250MHz	1450mA	0.045Ω	18.0GHz
LQW15AN1N6D80□	1.6nH ±0.5nH	100MHz	20	250MHz	1450mA	0.045Ω	18.0GHz
LQW15AN1N7C80□	1.7nH ±0.2nH	100MHz	20	250MHz	1150mA	0.065Ω	18.0GHz
LQW15AN1N7D80□	1.7nH ±0.5nH	100MHz	20	250MHz	1150mA	0.065Ω	18.0GHz
LQW15AN2N2B80□	2.2nH ±0.1nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N2C80□	2.2nH ±0.2nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N2D80□	2.2nH ±0.5nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N2G80□	2.2nH ±2%	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3B80□	2.3nH ±0.1nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3C80□	2.3nH ±0.2nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3D80□	2.3nH ±0.5nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N3G80□	2.3nH ±2%	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4B80□	2.4nH ±0.1nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4C80□	2.4nH ±0.2nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4D80□	2.4nH ±0.5nH	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N4G80□	2.4nH ±2%	100MHz	30	250MHz	2530mA	0.022Ω	15.5GHz
LQW15AN2N5B80□	2.5nH ±0.1nH	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N5C80□	2.5nH ±0.2nH	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N5D80□	2.5nH ±0.5nH	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N5G80□	2.5nH ±2%	100MHz	30	250MHz	2100mA	0.030Ω	15.5GHz
LQW15AN2N6B80□	2.6nH ±0.1nH	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N6C80□	2.6nH ±0.2nH	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N6D80□	2.6nH ±0.5nH	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N6G80□	2.6nH ±2%	100MHz	30	250MHz	1950mA	0.035Ω	14.5GHz
LQW15AN2N7B80□	2.7nH ±0.1nH	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz
LQW15AN2N7C80□	2.7nH ±0.2nH	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz
LQW15AN2N7D80□	2.7nH ±0.5nH	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN2N7G80□	2.7nH ±2%	100MHz	28	250MHz	1500mA	0.047Ω	14.0GHz
LQW15AN2N8B80□	2.8nH ±0.1nH	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N8C80□	2.8nH ±0.2nH	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N8D80□	2.8nH ±0.5nH	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N8G80□	2.8nH ±2%	100MHz	27	250MHz	1500mA	0.047Ω	13.5GHz
LQW15AN2N9B80□	2.9nH ±0.1nH	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN2N9C80□	2.9nH ±0.2nH	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN2N9D80□	2.9nH ±0.5nH	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN2N9G80□	2.9nH ±2%	100MHz	25	250MHz	1500mA	0.047Ω	12.5GHz
LQW15AN3N0B80□	3.0nH ±0.1nH	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N0C80□	3.0nH ±0.2nH	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N0D80□	3.0nH ±0.5nH	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N0G80□	3.0nH ±2%	100MHz	20	250MHz	1350mA	0.063Ω	12.5GHz
LQW15AN3N3B80□	3.3nH ±0.1nH	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N3C80□	3.3nH ±0.2nH	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N3D80□	3.3nH ±0.5nH	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N3G80□	3.3nH ±2%	100MHz	30	250MHz	2000mA	0.030Ω	14.0GHz
LQW15AN3N4B80□	3.4nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N4C80□	3.4nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N4D80□	3.4nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N4G80□	3.4nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5B80□	3.5nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5C80□	3.5nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5D80□	3.5nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N5G80□	3.5nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6B80□	3.6nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6C80□	3.6nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6D80□	3.6nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N6G80□	3.6nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7B80□	3.7nH ±0.1nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7C80□	3.7nH ±0.2nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7D80□	3.7nH ±0.5nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N7G80□	3.7nH ±2%	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8B80□	3.8nH ±0.1nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8C80□	3.8nH ±0.2nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8D80□	3.8nH ±0.5nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N8G80□	3.8nH ±2%	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9B80□	3.9nH ±0.1nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9C80□	3.9nH ±0.2nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9D80□	3.9nH ±0.5nH	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN3N9G80□	3.9nH ±2%	100MHz	35	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0B80□	4.0nH ±0.1nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0C80□	4.0nH ±0.2nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0D80□	4.0nH ±0.5nH	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N0G80□	4.0nH ±2%	100MHz	30	250MHz	1950mA	0.030Ω	10.0GHz
LQW15AN4N1B80□	4.1nH ±0.1nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N1C80□	4.1nH ±0.2nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N1D80□	4.1nH ±0.5nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N1G80□	4.1nH ±2%	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N2B80□	4.2nH ±0.1nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N2C80□	4.2nH ±0.2nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN4N2D80□	4.2nH ±0.5nH	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N2G80□	4.2nH ±2%	100MHz	30	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3B80□	4.3nH ±0.1nH	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3C80□	4.3nH ±0.2nH	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3D80□	4.3nH ±0.5nH	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N3G80□	4.3nH ±2%	100MHz	32	250MHz	1800mA	0.044Ω	9.6GHz
LQW15AN4N4B80□	4.4nH ±0.1nH	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N4C80□	4.4nH ±0.2nH	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N4D80□	4.4nH ±0.5nH	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N4G80□	4.4nH ±2%	100MHz	34	250MHz	1600mA	0.052Ω	9.6GHz
LQW15AN4N5B80□	4.5nH ±0.1nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N5C80□	4.5nH ±0.2nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N5D80□	4.5nH ±0.5nH	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N5G80□	4.5nH ±2%	100MHz	34	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N6B80□	4.6nH ±0.1nH	100MHz	32	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N6C80□	4.6nH ±0.2nH	100MHz	32	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N6D80□	4.6nH ±0.5nH	100MHz	32	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N6G80□	4.6nH ±2%	100MHz	32	250MHz	1450mA	0.060Ω	9.6GHz
LQW15AN4N7B80□	4.7nH ±0.1nH	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N7C80□	4.7nH ±0.2nH	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N7D80□	4.7nH ±0.5nH	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N7G80□	4.7nH ±2%	100MHz	31	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8B80□	4.8nH ±0.1nH	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8C80□	4.8nH ±0.2nH	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8D80□	4.8nH ±0.5nH	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N8G80□	4.8nH ±2%	100MHz	30	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9B80□	4.9nH ±0.1nH	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9C80□	4.9nH ±0.2nH	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9D80□	4.9nH ±0.5nH	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN4N9G80□	4.9nH ±2%	100MHz	27	250MHz	1200mA	0.071Ω	8.0GHz
LQW15AN5N0B80□	5.0nH ±0.1nH	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N0C80□	5.0nH ±0.2nH	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N0D80□	5.0nH ±0.5nH	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N0G80□	5.0nH ±2%	100MHz	32	250MHz	1770mA	0.040Ω	10.0GHz
LQW15AN5N1B80□	5.1nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N1C80□	5.1nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N1D80□	5.1nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N1G80□	5.1nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2B80□	5.2nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2C80□	5.2nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2D80□	5.2nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N2G80□	5.2nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3B80□	5.3nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3C80□	5.3nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3D80□	5.3nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N3G80□	5.3nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4B80□	5.4nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4C80□	5.4nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4D80□	5.4nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N4G80□	5.4nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N5B80□	5.5nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN5N5C80□	5.5nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N5D80□	5.5nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N5G80□	5.5nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6B80□	5.6nH ±0.1nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6C80□	5.6nH ±0.2nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6D80□	5.6nH ±0.5nH	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N6G80□	5.6nH ±2%	100MHz	35	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7B80□	5.7nH ±0.1nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7C80□	5.7nH ±0.2nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7D80□	5.7nH ±0.5nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N7G80□	5.7nH ±2%	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8B80□	5.8nH ±0.1nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8C80□	5.8nH ±0.2nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8D80□	5.8nH ±0.5nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N8G80□	5.8nH ±2%	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9B80□	5.9nH ±0.1nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9C80□	5.9nH ±0.2nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9D80□	5.9nH ±0.5nH	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN5N9G80□	5.9nH ±2%	100MHz	30	250MHz	1770mA	0.040Ω	8.0GHz
LQW15AN6N0B80□	6.0nH ±0.1nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N0C80□	6.0nH ±0.2nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N0D80□	6.0nH ±0.5nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N0G80□	6.0nH ±2%	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1B80□	6.1nH ±0.1nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1C80□	6.1nH ±0.2nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1D80□	6.1nH ±0.5nH	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N1G80□	6.1nH ±2%	100MHz	32	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2B80□	6.2nH ±0.1nH	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2C80□	6.2nH ±0.2nH	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2D80□	6.2nH ±0.5nH	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N2G80□	6.2nH ±2%	100MHz	33	250MHz	1600mA	0.056Ω	8.0GHz
LQW15AN6N3G80□	6.3nH ±2%	100MHz	32	250MHz	1600mA	0.057Ω	7.8GHz
LQW15AN6N3J80□	6.3nH ±5%	100MHz	32	250MHz	1600mA	0.057Ω	7.8GHz
LQW15AN6N4G80□	6.4nH ±2%	100MHz	33	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N4J80□	6.4nH ±5%	100MHz	33	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N5G80□	6.5nH ±2%	100MHz	32	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N5J80□	6.5nH ±5%	100MHz	32	250MHz	1380mA	0.065Ω	7.0GHz
LQW15AN6N6G80□	6.6nH ±2%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N6J80□	6.6nH ±5%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N7G80□	6.7nH ±2%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N7J80□	6.7nH ±5%	100MHz	30	250MHz	1280mA	0.078Ω	7.0GHz
LQW15AN6N8G80□	6.8nH ±2%	100MHz	30	250MHz	1450mA	0.068Ω	7.0GHz
LQW15AN6N8J80□	6.8nH ±5%	100MHz	30	250MHz	1450mA	0.068Ω	7.0GHz
LQW15AN6N9G80□	6.9nH ±2%	100MHz	32	250MHz	1420mA	0.069Ω	8.5GHz
LQW15AN6N9J80□	6.9nH ±5%	100MHz	32	250MHz	1420mA	0.069Ω	8.5GHz
LQW15AN7N0G80□	7.0nH ±2%	100MHz	33	250MHz	1420mA	0.069Ω	8.0GHz
LQW15AN7N0J80□	7.0nH ±5%	100MHz	33	250MHz	1420mA	0.069Ω	8.0GHz
LQW15AN7N1G80□	7.1nH ±2%	100MHz	32	250MHz	1420mA	0.069Ω	7.0GHz
LQW15AN7N1J80□	7.1nH ±5%	100MHz	32	250MHz	1420mA	0.069Ω	7.0GHz
LQW15AN7N2G80□	7.2nH ±2%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N2J80□	7.2nH ±5%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN7N3G80□	7.3nH ±2%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N3J80□	7.3nH ±5%	100MHz	32	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N4G80□	7.4nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N4J80□	7.4nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N5G80□	7.5nH ±2%	100MHz	35	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N5J80□	7.5nH ±5%	100MHz	35	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N6G80□	7.6nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N6J80□	7.6nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N7G80□	7.7nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N7J80□	7.7nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N8G80□	7.8nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N8J80□	7.8nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N9G80□	7.9nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN7N9J80□	7.9nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN8N0G80□	8.0nH ±2%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN8N0J80□	8.0nH ±5%	100MHz	30	250MHz	1700mA	0.050Ω	7.0GHz
LQW15AN8N1G80□	8.1nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N1J80□	8.1nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N2G80□	8.2nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N2J80□	8.2nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N3G80□	8.3nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N3J80□	8.3nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N4G80□	8.4nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N4J80□	8.4nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N5G80□	8.5nH ±2%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N5J80□	8.5nH ±5%	100MHz	32	250MHz	1500mA	0.069Ω	6.5GHz
LQW15AN8N6G80□	8.6nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N6J80□	8.6nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N7G80□	8.7nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N7J80□	8.7nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N8G80□	8.8nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N8J80□	8.8nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N9G80□	8.9nH ±2%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN8N9J80□	8.9nH ±5%	100MHz	31	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN9N0G80□	9.0nH ±2%	100MHz	30	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN9N0J80□	9.0nH ±5%	100MHz	30	250MHz	1420mA	0.070Ω	6.5GHz
LQW15AN9N1G80□	9.1nH ±2%	100MHz	32	250MHz	1400mA	0.080Ω	6.5GHz
LQW15AN9N1J80□	9.1nH ±5%	100MHz	32	250MHz	1400mA	0.080Ω	6.5GHz
LQW15AN9N2G80□	9.2nH ±2%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N2J80□	9.2nH ±5%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N3G80□	9.3nH ±2%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N3J80□	9.3nH ±5%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N4G80□	9.4nH ±2%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N4J80□	9.4nH ±5%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N5G80□	9.5nH ±2%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N5J80□	9.5nH ±5%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N6G80□	9.6nH ±2%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N6J80□	9.6nH ±5%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N7G80□	9.7nH ±2%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N7J80□	9.7nH ±5%	100MHz	33	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N8G80□	9.8nH ±2%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN9N8J80□	9.8nH ±5%	100MHz	34	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N9G80□	9.9nH ±2%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN9N9J80□	9.9nH ±5%	100MHz	32	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN10NG80□	10nH ±2%	100MHz	31	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN10NJ80□	10nH ±5%	100MHz	31	250MHz	1400mA	0.081Ω	6.0GHz
LQW15AN11NG80□	11nH ±2%	100MHz	32	250MHz	1400mA	0.083Ω	6.2GHz
LQW15AN11NJ80□	11nH ±5%	100MHz	32	250MHz	1400mA	0.083Ω	6.2GHz
LQW15AN12NG80□	12nH ±2%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN12NJ80□	12nH ±5%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN13NG80□	13nH ±2%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN13NJ80□	13nH ±5%	100MHz	30	250MHz	1240mA	0.093Ω	5.2GHz
LQW15AN14NG80□	14nH ±2%	100MHz	31	250MHz	1150mA	0.111Ω	5.2GHz
LQW15AN14NJ80□	14nH ±5%	100MHz	31	250MHz	1150mA	0.111Ω	5.2GHz
LQW15AN15NG80□	15nH ±2%	100MHz	31	250MHz	1150mA	0.114Ω	5.5GHz
LQW15AN15NJ80□	15nH ±5%	100MHz	31	250MHz	1150mA	0.114Ω	5.5GHz
LQW15AN16NG80□	16nH ±2%	100MHz	31	250MHz	1000mA	0.126Ω	5.0GHz
LQW15AN16NJ80□	16nH ±5%	100MHz	31	250MHz	1000mA	0.126Ω	5.0GHz
LQW15AN17NG80□	17nH ±2%	100MHz	30	250MHz	1000mA	0.126Ω	5.0GHz
LQW15AN17NJ80□	17nH ±5%	100MHz	30	250MHz	1000mA	0.126Ω	5.0GHz
LQW15AN18NG80□	18nH ±2%	100MHz	30	250MHz	1050mA	0.130Ω	5.2GHz
LQW15AN18NJ80□	18nH ±5%	100MHz	30	250MHz	1050mA	0.130Ω	5.2GHz
LQW15AN19NG80□	19nH ±2%	100MHz	30	250MHz	920mA	0.156Ω	5.0GHz
LQW15AN19NJ80□	19nH ±5%	100MHz	30	250MHz	920mA	0.156Ω	5.0GHz
LQW15AN20NG80□	20nH ±2%	100MHz	30	250MHz	800mA	0.186Ω	4.5GHz
LQW15AN20NJ80□	20nH ±5%	100MHz	30	250MHz	800mA	0.186Ω	4.5GHz
LQW15AN21NG80□	21nH ±2%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN21NJ80□	21nH ±5%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN22NG80□	22nH ±2%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN22NJ80□	22nH ±5%	100MHz	30	250MHz	780mA	0.202Ω	4.5GHz
LQW15AN23NG80□	23nH ±2%	100MHz	29	250MHz	760mA	0.201Ω	4.5GHz
LQW15AN23NJ80□	23nH ±5%	100MHz	29	250MHz	760mA	0.201Ω	4.5GHz
LQW15AN24NG80□	24nH ±2%	100MHz	31	250MHz	770mA	0.212Ω	4.0GHz
LQW15AN24NJ80□	24nH ±5%	100MHz	31	250MHz	770mA	0.212Ω	4.0GHz
LQW15AN25NG80□	25nH ±2%	100MHz	31	250MHz	750mA	0.221Ω	4.1GHz
LQW15AN25NJ80□	25nH ±5%	100MHz	31	250MHz	750mA	0.221Ω	4.1GHz
LQW15AN26NG80□	26nH ±2%	100MHz	29	250MHz	720mA	0.282Ω	4.1GHz
LQW15AN26NJ80□	26nH ±5%	100MHz	29	250MHz	720mA	0.282Ω	4.1GHz
LQW15AN27NG80□	27nH ±2%	100MHz	30	250MHz	680mA	0.288Ω	4.0GHz
LQW15AN27NJ80□	27nH ±5%	100MHz	30	250MHz	680mA	0.288Ω	4.0GHz
LQW15AN30NG80□	30nH ±2%	100MHz	30	250MHz	660mA	0.309Ω	3.8GHz
LQW15AN30NJ80□	30nH ±5%	100MHz	30	250MHz	660mA	0.309Ω	3.8GHz
LQW15AN33NG80□	33nH ±2%	100MHz	30	250MHz	620mA	0.336Ω	3.6GHz
LQW15AN33NJ80□	33nH ±5%	100MHz	30	250MHz	620mA	0.336Ω	3.6GHz
LQW15AN36NG80□	36nH ±2%	100MHz	30	250MHz	540mA	0.431Ω	3.5GHz
LQW15AN36NJ80□	36nH ±5%	100MHz	30	250MHz	540mA	0.431Ω	3.5GHz
LQW15AN39NG80□	39nH ±2%	100MHz	28	250MHz	530mA	0.456Ω	3.4GHz
LQW15AN39NJ80□	39nH ±5%	100MHz	28	250MHz	530mA	0.456Ω	3.4GHz
LQW15AN43NG80□	43nH ±2%	100MHz	30	250MHz	515mA	0.516Ω	3.4GHz
LQW15AN43NJ80□	43nH ±5%	100MHz	30	250MHz	515mA	0.516Ω	3.4GHz
LQW15AN47NG80□	47nH ±2%	100MHz	25	200MHz	440mA	0.648Ω	3.2GHz
LQW15AN47NJ80□	47nH ±5%	100MHz	25	200MHz	440mA	0.648Ω	3.2GHz

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

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Part Number	Inductance	Inductance Test Frequency	Q (min.)	Q Test Frequency	Rated Current	Max. of DC Resistance	S.R.F.* (min.)
LQW15AN51NG80□	51nH ±2%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN51NJ80□	51nH ±5%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN53NG80□	53nH ±2%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN53NJ80□	53nH ±5%	100MHz	25	200MHz	415mA	0.696Ω	2.9GHz
LQW15AN56NG80□	56nH ±2%	100MHz	25	200MHz	340mA	0.996Ω	2.9GHz
LQW15AN56NJ80□	56nH ±5%	100MHz	25	200MHz	340mA	0.996Ω	2.9GHz
LQW15AN68NG80□	68nH ±2%	100MHz	25	200MHz	320mA	1.128Ω	2.5GHz
LQW15AN68NJ80□	68nH ±5%	100MHz	25	200MHz	320mA	1.128Ω	2.5GHz
LQW15AN75NG80□	75nH ±2%	100MHz	25	200MHz	320mA	1.224Ω	2.4GHz
LQW15AN75NJ80□	75nH ±5%	100MHz	25	200MHz	320mA	1.224Ω	2.4GHz

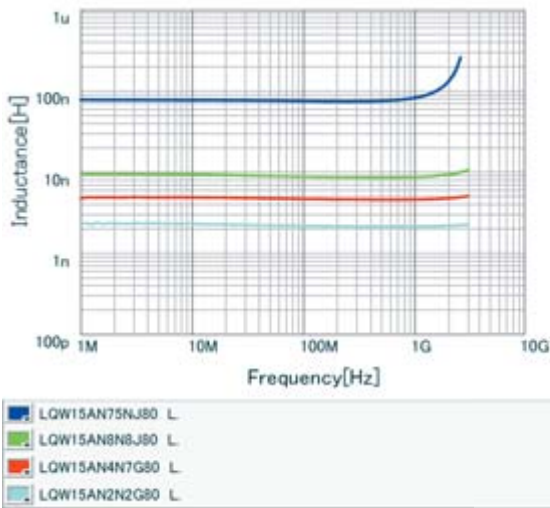
Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

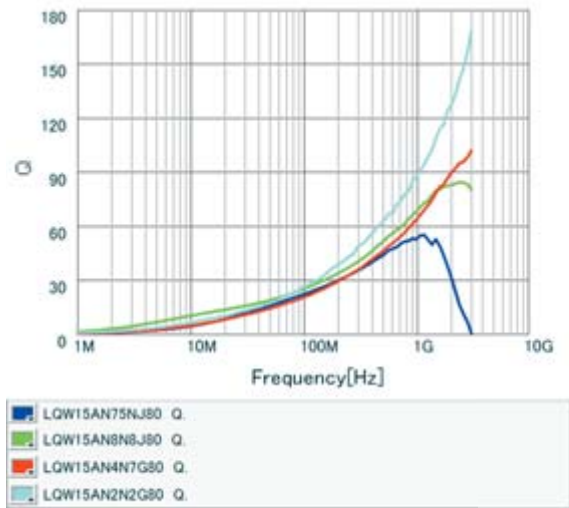
\*S.R.F.: Self-Resonant Frequency

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15A\_80 series. Please apply the derating curve shown in the chart according to the operating temperature. Please consider the "Notice (Rating)."

### Inductance-Frequency Characteristics (Typ.)



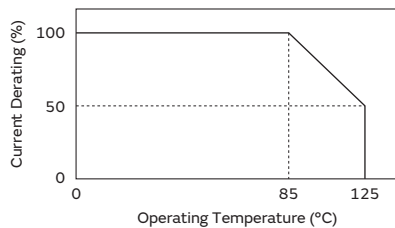
### Q-Frequency Characteristics (Typ.)



### Notice (Rating)

In operating temperatures exceeding +85°C, derating of current is necessary for the LQW15AN\_80 series. Please apply the derating curve shown in the chart according to the operating temperature.

#### Derating of Rated Current



## RF Inductors ⚠️Caution/Notice

### ⚠️Caution

#### Rating

##### 1. About the Rated Current

Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

##### 2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the specified rated current applied to the product may cause a critical failure, such as an open circuit or burnout caused by excessive temperature rise.  
Please contact us in advance if applying a surge current.

### Notice

#### Storage and Operating Condition

##### <Operating Environment>

Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.

##### <Storage Requirements>

##### 1. Storage Period

The LQG series should be used within 6 months; the other products should be used within 12 months.  
Check solderability if this period is exceeded.

##### 2. Storage Conditions

- (1) Store products in a warehouse in compliance with the following conditions:  
Temperature: -10 to +40 degrees C.  
Humidity: 15 to 85% (relative humidity)

Do not subject products to rapid changes in temperature and humidity.

Do not store them in a chemical atmosphere such as one containing sulfurous acid gas or alkaline gas.  
This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

- (2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.
- (3) Store products on pallets to protect from humidity, dust, etc.
- (4) Avoid heat shock, vibration, direct sunlight, etc.

#### Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

##### LQW\_A/LQW\_H series

- To prevent breaking the wire, avoid touching with sharp materials, such as tweezers or the bristles of a cleaning brush, to the wire wound portion.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- In some mounting machines, when picking up components, a support pin pushes the components up from the bottom of the base tape. In this case, please remove the support pin. The support pin may damage the components and break the wire.
- In rare cases, the laser recognition cannot recognize this component. Please contact us when you use laser recognition. (There is no problem with the permeation and reflection type.)

##### LQH\_H series

- To prevent breaking the wire, avoid touching with sharp materials, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.

##### LQG,LQP series (except LQP02\_02/LQP03\_02)

- The pattern of the chip Inductors is covered with protective film. Take care to avoid damaging the chip Inductors when handling it with pick-up nozzles, sharp instruments, etc.

##### <Transportation>

Do not apply excessive vibration or mechanical shock to products.

Continued on the following page. ↗

## RF Inductors Soldering and Mounting

Continued from the preceding page. ↘

### <Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values.

For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

(LQW, LQH series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

(LQP02\_02/LQP03\_02)

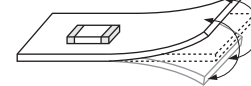
When products are coated with resin, please contact us in advance.

### <Handling of a Substrate>

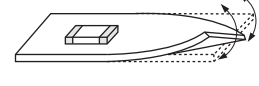
After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate.

Excessive mechanical stress may cause cracking in the Product.

Bending



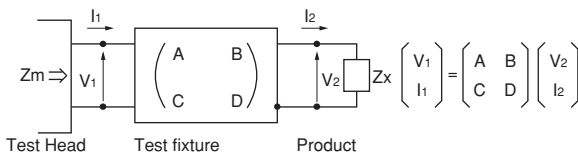
Twisting



## Measuring Method

### Measuring Method of Inductance/Q

1. Residual elements and stray elements of test fixtures can be described by F-parameter as shown in the following:



2. The impedance of chip Inductors (chip coils)  $Z_x$  and measured value  $Z_m$  can be described by input/output current/voltage.

$$Z_m = \frac{V_1}{I_1}, \quad Z_x = \frac{V_2}{I_2}$$

3. Thus, the relation between  $Z_x$  and  $Z_m$  is shown in the following:

$$Z_x = \alpha \frac{Z_m - \beta}{1 - Z_m \Gamma}$$

where,  $\alpha = D / A = 1$

$\beta = B / D = Z_{sm} - (1 - Y_{om} Z_{sm}) Z_{ss}$

$\Gamma = C / A = Y_{om}$

$Z_{sm}$ : measured impedance of short chip  
 $Z_{ss}$ : residual impedance of short chip\*  
 $Y_{om}$ : measured admittance when opening the fixture

\*Residual impedance of short chip

Residual Impedance	Series
0nH	LQG15H/LQP03TG
0.110nH	LQP02HQ/LQP02TN/LQP02TQ
0.464nH	LQW04AN
0.480nH	LQP03HQ/LQP03TN_02/LQW03AW
0.556nH	LQG15HN, LQW15A, LQP15M
0.771nH	LQG18H, LQP18M, LQW18A, LQW21H/LQW2BAN

4.  $L_x$  and  $Q_x$  should be calculated with the following equation.

$$L_x = \frac{\text{Im}(Z_x)}{2\pi f}, \quad Q_x = \frac{\text{Im}(Z_x)}{\text{Re}(Z_x)}$$

$L_x$ : Inductance of chip Inductors (chip coils)  
 $Q_x$ : Q of chip Inductors (chip coils)  
 $f$ : Measuring frequency

Please contact us for LQW18AS, LQW2BAS, LQW2UAS, because they are different from other inductors regarding the inductance calculation method.

# RF Inductors Soldering and Mounting

## 1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip inductor's (chip coil's) electrode.

■ Land Pattern + Solder Resist    ■ Land Pattern    □ Solder Resist  
 (in mm)

Series	Standard Land Dimensions				
LQG15H LQG18H LQP02TN LQP02TQ LQP03T LQP15M LQP18M LQW03A LQW04A LQW15A LQW18A LQW21H LQW2BH LQW2BA LQW2UA LQW31H LQH31H		Part Number	a	b	c
		LQG15H	0.4	1.4 to 1.5	0.5 to 0.6
		LQG18H	0.6 to 0.8	1.8 to 2.2	0.6 to 0.8
		LQP02TN	0.16 to 0.2	0.4 to 0.56	0.2 to 0.23
		LQP02HQ/TQ	0.2	0.56	0.16
		LQP03HQ	0.3	0.9	0.25 to 0.3
		LQP03TN/TG/PN	0.2 to 0.3	0.8 to 0.9	0.2 to 0.3
		LQP03TQ	0.3	0.9	0.25
		LQP15M	0.4	1.4 to 1.5	0.5 to 0.6
		LQP18M	0.7 to 0.9	1.8 to 2.2	0.6 to 0.8
		LQW03A	0.23	0.65	0.4
		LQW04A	0.4	1.0	0.4
		LQW15A_00/10	0.5	1.2	0.65
		LQW15A_80	0.6	1.42	0.66
		LQW18AN_00/10/ AS_00	0.6 to 0.8	1.9 to 2.0	0.7 to 1.0
		LQW18A_80	0.86	2.0	1.15
		LQW21H	1.0	2.6	1.2
		LQW2BH	0.8	3.0	1.2
		LQW2BA	0.76	2.8	1.78
		LQW2UA	1.27	3.3	2.54
LQH31H	1.0	4.5	1.5		
LQW31H	1.0	4.5	1.5		

Attention should be paid to potential magnetic coupling effects when using the inductor (coil) as a resonator.

## 2. Standard Soldering Conditions

### (1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow soldered.

Please contact Murata regarding other soldering methods.

For LQG, LQP,

LQW03A/04A/15A/18A/21H/2BA/2UA series, please use reflow soldering.

Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux (with chlorine content exceeding 0.2wt%).

Do not use water-soluble flux.

The flux used for the LQW03/04/15/18/21/2BA/2UA series should be a rosin-based flux that includes a middle activator equivalent to 0.06wt% to 0.1wt% chlorine.

For additional mounting methods, please contact Murata.

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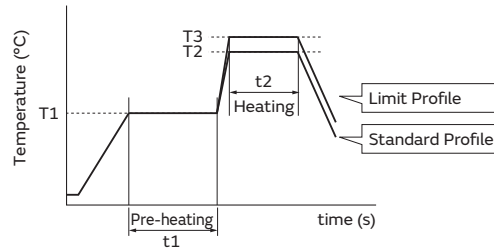


## RF Inductors Soldering and Mounting

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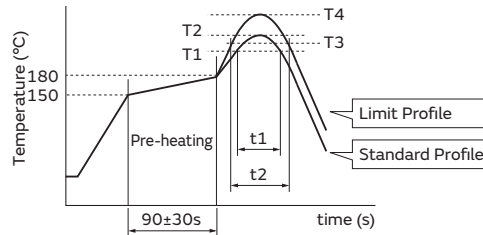
### (2) Soldering profile

#### ●Flow Soldering profile (Sn-3.0Ag-0.5Cu solder)



Series	Pre-heating		Standard Profile			Limit Profile		
	Temp. (T1)	Time. (t1)	Heating		Cycle of flow	Heating		Cycle of flow
			Temp. (T2)	Time. (t2)		Temp. (T3)	Time. (t2)	
LQW2BH/31H LQH31H	150°C	60s min.	250°C	4 to 6s	2 times max.	265±3°C	5s max.	2 times max.

#### ●Reflow Soldering profile (Sn-3.0Ag-0.5Cu solder)



Series	Standard Profile				Limit Profile			
	Heating		Peak temperature (T2)	Cycle of reflow	Heating		Peak temperature (T4)	Cycle of reflow
	Temp. (T1)	Time. (t1)			Temp. (T3)	Time. (t2)		
LQG15H/18H LQW03A/04A/15A/18A/21H LQW2BA/2UA LQP02T/03T/15M/18M LQW2BH/31H LQH31H	220°C	30 to 60s	245±3°C	2 times max.	230°C	60s max.	260°C/10s	2 times max.

### (3) Reworking with a Soldering Iron

\*Except for LQP02T/LQW04AN/03AW/15AN\_80

Series

Preheating at 150°C for 1 minute is required. Do not directly touch the ceramic element with the tip of the soldering iron. The reworking soldering conditions are as follows:

Soldering iron power output: 80W max.

Temperature of soldering iron tip: 350°C

Diameter of soldering iron end: 3.0mm max.

Soldering time: within 3 s

Please keep the fix time with the soldering iron within 2 times.

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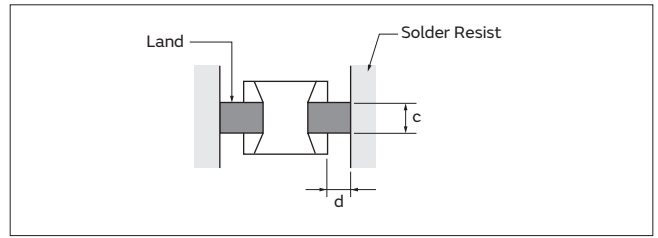
## RF Inductors Soldering and Mounting

Continued from the preceding page. ↘

### 3. Mounting Instructions

#### (1) Land Pattern Dimensions

Large lands reduce the Q of the mounted chip. Also, large protruding land areas (bordered by lines having the dimensions "c" and "d" shown) cause floating and electrode leaching.

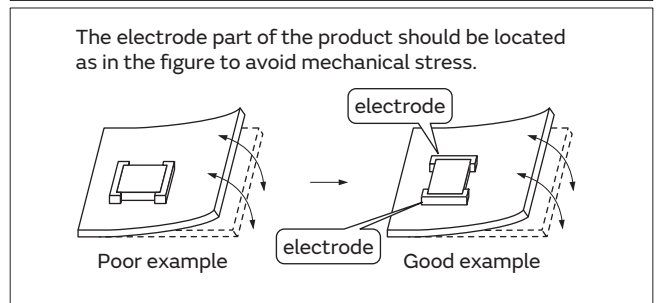
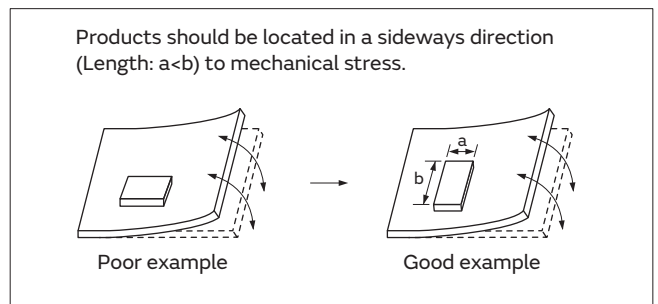


#### (2) Land Pattern Designing (LQW series)

Please follow the recommended patterns. Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.

#### (3) PCB Warping

The PCB should be designed so that products are not subjected to mechanical stress caused by warping the board.



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## RF Inductors Soldering and Mounting

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### (4) Amount of Solder Paste

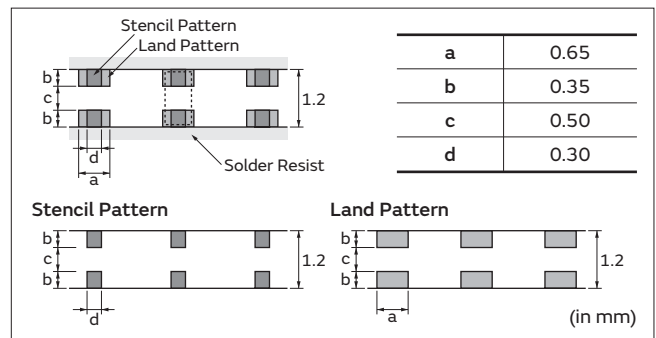
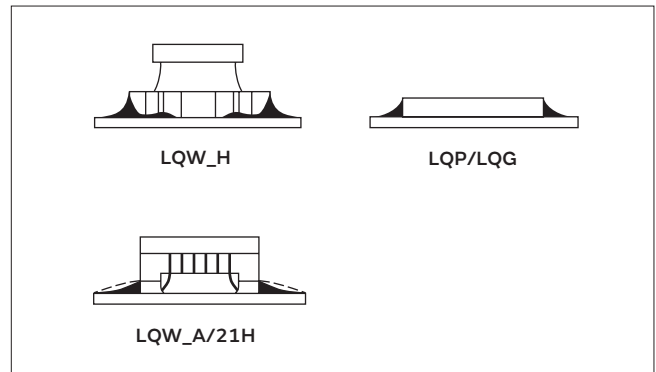
Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that the correct amount is applied.

Guideline of solder paste thickness

- LQP (\*Except for LQP02TN/LQP02TQ/HQ/LQP03TQ/HQ),LQG,LQW15AN\_00/LQW15AN\_10/LQW18AN/LQW21H/LQW2BA/LQW2UA: 100 to 150μm
- LQP02TN: 50 to 80μm
- LQP02TQ/HQ: 50 to 65μm
- LQP03TQ/HQ: 100μm
- LQW03A/LQW04A: 80 to 100μm
- LQW15AN\_80: 50 to 100μm
- LQW\_H: 200 to 300μm

### LQW15A Series:

Too much solder may cause slant or rotation of the chip at the time of solder melting. Please reduce the amount of solder by using a smaller solder area than the land pattern, as shown in the figure at right.



## 4. Cleaning

The following conditions should be observed when cleaning chip inductors (chip coils):

- (1) Cleaning Temperature: 60°C max. (40°C max. for alcohol cleaning agents)
- (2) Ultrasonic
  - Output: 20W/l max.
  - Duration: 5 minutes max.
  - Frequency: 28 to 40kHz
  - Care should be taken not to cause resonance of the PCB and mounted products.

### (3) Cleaning agent

The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.

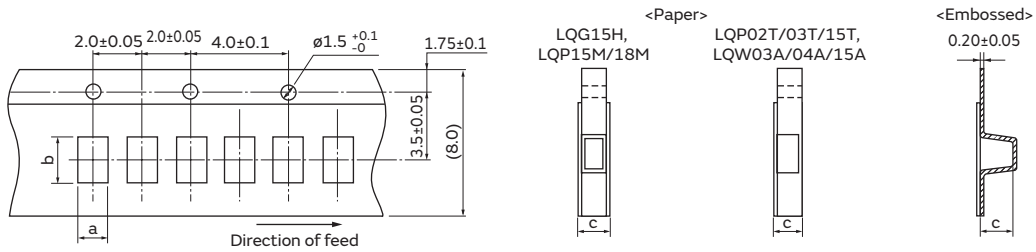
- Alcohol cleaning agents
  - Isopropyl alcohol (IPA)
- Aqueous cleaning agents
  - Pine Alpha ST-100S

- (4) Ensure that flux residue is completely removed. Component should be thoroughly dried after aqueous agents have been removed with deionized water.

For additional cleaning methods, please contact Murata.

## RF Inductors Packaging

### Minimum Quantity and 8mm Width Taping Dimensions



#### Paper Tape

Part Number	Dimensions		Total Thickness of Tape c	Packaging Code (Minimum Qty. (pcs.))		
	a	b		ø180mm reel	ø330mm reel	Bulk
LQG15H	0.62	1.12	0.8 max.	D (10000)	J (50000)	B (1000)
LQP02TN	0.24	0.47	0.39 max.	D (20000)	—	B (500)
LQP02TQ	0.23	0.45	0.39 max.	D (20000)	—	B (500)
LQP03HQ	0.36	0.68	0.55 max.	D (15000)	J (50000)	B (500)
LQP03TN/TG/TQ *1	0.35	0.65/0.67	0.55 max.	D (15000)	J (50000)	B (500)
LQP15M	0.70	1.20	0.8 max.	D (10000)	J (50000)	B (500)
LQP18M	1.19	2.0	0.8 max.	D (4000)	J (10000)	B (500)
LQW03A	0.52	0.65	0.75 max.	D (10000)	—	—
LQW04A	0.49	0.91	0.75 max.	D (10000)	—	B (500)
LQW15A_00 *2	0.64/0.66/0.69	1.18	0.8 max.	D (10000)	—	B (500)
LQW15A_10 *3	0.66/0.69	1.18	0.8 max.	D (10000)	—	B (500)
LQW15A_80	0.75	1.18	0.8 max.	D (10000)	—	B (500)

\*1 0.67 (LQP03TG · LQP03TN\_02; 0.6 to 62nH, 130 to 270nH · LQP03PN, LQP03TQ)

0.65 (LQP03TN\_02; 68 to 120nH)

\*2 0.69 (1.5nH, 2.4 to 2.8nH, 3.9 to 4.8nH, 5.8 to 6.8nH, 8.2 to 9.9nH, 11nH, 12nH, 15nH)

0.66 (1.6 to 1.8nH, 2.9nH, 3.0nH, 3.1nH, 3.2nH, 4.9 to 5.1nH, 6.9 to 7.5nH, 10nH, 13nH, 16 to 23nH, 100nH, 120nH)

0.64 (24 to 91nH)

\*3 0.69 (1.3nH, 1.4nH)

0.66 (2.2 to 8.4nH)

#### Embossed Tape

Part Number	Dimensions		Total Thickness of Tape c	Packaging Code (Minimum Qty. (pcs.))		
	a	b		ø180mm reel	ø330mm reel	Bulk
LQP02HQ	0.24	0.46	0.34 max.	E (15000)	—	B (500)

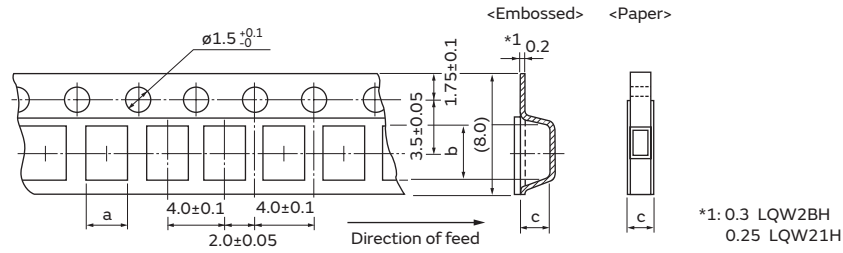
(in mm)

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## RF Inductors Packaging

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### Minimum Quantity and 8mm Width Taping Dimensions



The dimension of the cavity of embossed tape is measured at the bottom side.

#### Paper Tape

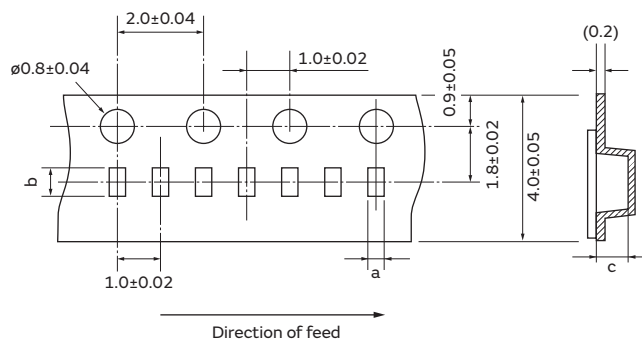
Part Number	Dimensions		Total Thickness of Tape	Packaging Code (Minimum Qty. (pcs.))		
	a	b		c	φ180mm reel	φ330mm reel
LQG18H	1.05	1.85	1.1 max.	D (4000)	J (10000)	B (1000)
LQW18AN_00	1.0	1.8	1.1 max.	D (4000)	J (10000)	B (500)
LQW18AN_10	1.1	1.9	1.1 max.	D (4000)	J (10000)	B (500)
LQW18AN_80	1.15	1.9	1.1 max.	D (4000)	J (10000)	B (500)
LQW18AS_00	1.06	1.86	1.1 max.	D (4000)	J (10000)	B (500)

#### Embossed Tape

Part Number	Dimensions		Depth of Cavity	Packaging Code (Minimum Qty. (pcs.))		
	a	b		c	φ180mm reel	φ330mm reel
LQP02HQ	0.24	0.46	0.34 max.	L (30000)	—	B (500)
LQH31H, LQW31H	1.9	3.6	2.0	L (2000)	K (7500)	—
LQW21H	1.55	2.3	1.1	L (3000)	—	B (500)
LQW2BH	1.75	2.3	2.0	L (2000)	K (7500)	—
LQW2BA	1.8	2.3	1.65	L (2000)	—	—
LQW2UA	2.7	2.8	2.15	L (2000)	—	—

(in mm)

### Minimum Quantity and 4mm Width Taping Dimensions



#### Embossed Tape

Part Number	Dimensions		Total Thickness of Tape	Packaging Code (Minimum Qty. (pcs.))		
	a	b		c	φ180mm reel	φ330mm reel
LQP02HQ	0.24	0.46	0.34 max.	L (30000)	—	B (500)
LQP02TN	0.21	0.43	0.23 max.	L (40000)	—	B (500)
LQP02TQ	0.22	0.47	0.23 max.	L (40000)	—	B (500)

(in mm)