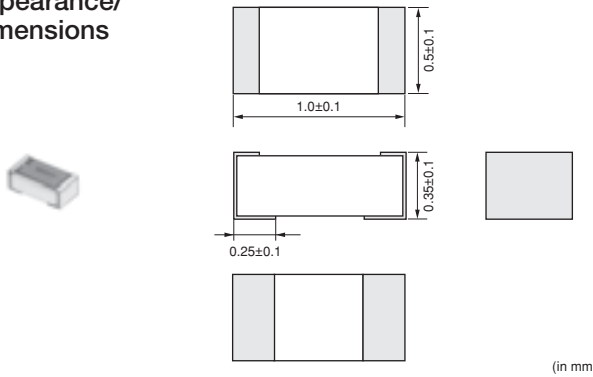


LQP15MN_02 Series 0402/1005 (inch/mm)

Size Code 0402 (1005) in inch (in mm), Tight Inductance Tolerance, Film Type

■ Appearance/Dimensions



■ Packaging

Code	Packaging	Minimum Quantity
D	ø180mm Paper Taping	10000
J	ø330mm Paper Taping	50000
B	Packing in Bulk	500



Refer to pages 227 to 230 for mounting information.

■ 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.)	
LQP15MN1N0B02□	1.0nH ±0.1nH	500MHz	400mA	0.1Ω	13	500MHz	6000MHz	Kit
LQP15MN1N0W02□	1.0nH ±0.05nH	500MHz	400mA	0.1Ω	13	500MHz	6000MHz	
LQP15MN1N1B02□	1.1nH ±0.1nH	500MHz	390mA	0.1Ω	13	500MHz	6000MHz	Kit
LQP15MN1N1W02□	1.1nH ±0.05nH	500MHz	390mA	0.1Ω	13	500MHz	6000MHz	
LQP15MN1N2B02□	1.2nH ±0.1nH	500MHz	390mA	0.1Ω	13	500MHz	6000MHz	Kit
LQP15MN1N2W02□	1.2nH ±0.05nH	500MHz	390mA	0.1Ω	13	500MHz	6000MHz	
LQP15MN1N3B02□	1.3nH ±0.1nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	Kit
LQP15MN1N3W02□	1.3nH ±0.05nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	
LQP15MN1N4W02□	1.4nH ±0.05nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	
LQP15MN1N5B02□	1.5nH ±0.1nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	Kit
LQP15MN1N5W02□	1.5nH ±0.05nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	
LQP15MN1N6B02□	1.6nH ±0.1nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	Kit
LQP15MN1N6W02□	1.6nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN1N7W02□	1.7nH ±0.05nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	
LQP15MN1N8B02□	1.8nH ±0.1nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	Kit
LQP15MN1N8W02□	1.8nH ±0.05nH	500MHz	280mA	0.2Ω	13	500MHz	6000MHz	
LQP15MN1N9W02□	1.9nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N0B02□	2.0nH ±0.1nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	Kit
LQP15MN2N0W02□	2.0nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N1W02□	2.1nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N2B02□	2.2nH ±0.1nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	Kit
LQP15MN2N2W02□	2.2nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N3W02□	2.3nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N4B02□	2.4nH ±0.1nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	Kit
LQP15MN2N4W02□	2.4nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N5W02□	2.5nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N6W02□	2.6nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N7B02□	2.7nH ±0.1nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	Kit
LQP15MN2N7W02□	2.7nH ±0.05nH	500MHz	220mA	0.3Ω	13	500MHz	6000MHz	
LQP15MN2N8W02□	2.8nH ±0.05nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	
LQP15MN2N9W02□	2.9nH ±0.05nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	
LQP15MN3N0B02□	3.0nH ±0.1nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	Kit

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C
For reflow soldering only.

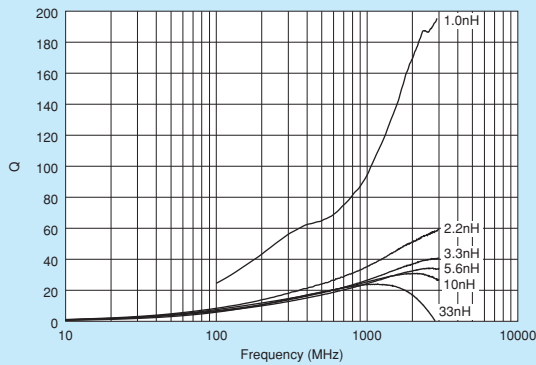
Continued on the following page.

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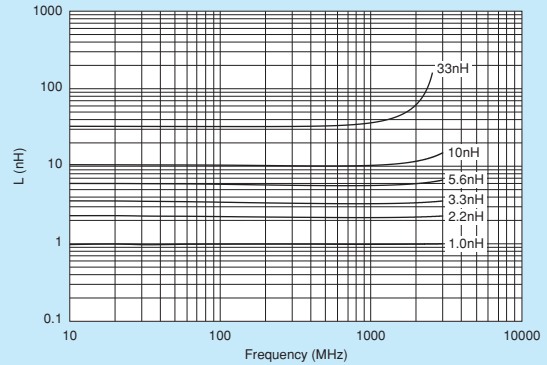
Part Number	Inductance	Inductance Test Frequency	Rated Current	Max. of DC Resistance	Q (min.)	Q Test Frequency	Self-Resonance Frequency (min.)	
LQP15MN3N0W02□	3.0nH ±0.05nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	
LQP15MN3N1W02□	3.1nH ±0.05nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	
LQP15MN3N2W02□	3.2nH ±0.05nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	
LQP15MN3N3B02□	3.3nH ±0.1nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	Kit
LQP15MN3N3W02□	3.3nH ±0.05nH	500MHz	190mA	0.4Ω	13	500MHz	6000MHz	
LQP15MN3N4W02□	3.4nH ±0.05nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	
LQP15MN3N5W02□	3.5nH ±0.05nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	
LQP15MN3N6B02□	3.6nH ±0.1nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	Kit
LQP15MN3N6W02□	3.6nH ±0.05nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	
LQP15MN3N7W02□	3.7nH ±0.05nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	
LQP15MN3N8W02□	3.8nH ±0.05nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	
LQP15MN3N9B02□	3.9nH ±0.1nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	Kit
LQP15MN3N9W02□	3.9nH ±0.05nH	500MHz	170mA	0.5Ω	13	500MHz	6000MHz	
LQP15MN4N3B02□	4.3nH ±0.1nH	500MHz	160mA	0.6Ω	13	500MHz	6000MHz	Kit
LQP15MN4N7B02□	4.7nH ±0.1nH	500MHz	160mA	0.6Ω	13	500MHz	6000MHz	Kit
LQP15MN5N1B02□	5.1nH ±0.1nH	500MHz	140mA	0.7Ω	13	500MHz	6000MHz	Kit
LQP15MN5N6B02□	5.6nH ±0.1nH	500MHz	140mA	0.7Ω	13	500MHz	6000MHz	Kit
LQP15MN6N2B02□	6.2nH ±0.1nH	500MHz	130mA	0.9Ω	13	500MHz	6000MHz	Kit
LQP15MN6N8B02□	6.8nH ±0.1nH	500MHz	130mA	0.9Ω	13	500MHz	6000MHz	Kit
LQP15MN7N5B02□	7.5nH ±0.1nH	500MHz	110mA	1.1Ω	13	500MHz	5500MHz	Kit
LQP15MN8N2B02□	8.2nH ±0.1nH	500MHz	110mA	1.1Ω	13	500MHz	5500MHz	Kit
LQP15MN9N1B02□	9.1nH ±0.1nH	500MHz	100mA	1.3Ω	13	500MHz	4500MHz	Kit
LQP15MN10NG02□	10nH ±2%	500MHz	100mA	1.3Ω	13	500MHz	4500MHz	Kit
LQP15MN12NG02□	12nH ±2%	500MHz	90mA	1.6Ω	13	500MHz	3700MHz	Kit
LQP15MN15NG02□	15nH ±2%	500MHz	90mA	1.8Ω	13	500MHz	3300MHz	Kit
LQP15MN18NG02□	18nH ±2%	500MHz	80mA	2.0Ω	13	500MHz	3100MHz	Kit
LQP15MN22NG02□	22nH ±2%	500MHz	70mA	2.6Ω	13	500MHz	2800MHz	Kit
LQP15MN27NG02□	27nH ±2%	500MHz	70mA	3.1Ω	13	500MHz	2500MHz	Kit
LQP15MN33NG02□	33nH ±2%	500MHz	60mA	3.8Ω	13	500MHz	2100MHz	Kit

Operating Temperature Range (Self-temperature rise is not included): -40°C~+85°C
For reflow soldering only.

■ Q-Frequency Characteristics (Typ.)



■ Inductance-Frequency Characteristics (Typ.)



Continued on the following page.

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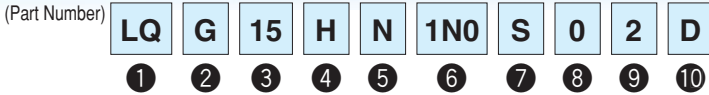
■ Reference Data

4991A&16197A

Part Number	Q (Typ.)				
	800MHz	900MHz	1.8GHz	2.0GHz	2.4GHz
LQP15MN1N0□02	80	88	157	172	188
LQP15MN1N1□02	60	65	107	115	125
LQP15MN1N2□02	56	61	100	104	114
LQP15MN1N3□02	46	50	77	81	86
LQP15MN1N4□02	40	44	65	68	73
LQP15MN1N5□02	34	36	55	57	62
LQP15MN1N6□02	25	27	40	42	46
LQP15MN1N7□02	29	32	47	49	53
LQP15MN1N8□02	32	35	51	53	57
LQP15MN1N9□02	34	36	54	56	60
LQP15MN2N0□02	32	34	51	53	57
LQP15MN2N1□02	34	37	55	57	61
LQP15MN2N2□02	31	33	49	51	55
LQP15MN2N3□02	32	34	51	54	58
LQP15MN2N4□02	32	34	51	53	57
LQP15MN2N5□02	31	33	50	52	56
LQP15MN2N6□02	29	32	47	49	53
LQP15MN2N7□02	29	32	47	49	53
LQP15MN2N8□02	28	30	45	46	50
LQP15MN2N9□02	28	30	44	45	48
LQP15MN3N0□02	27	29	43	44	48
LQP15MN3N1□02	25	27	39	41	44
LQP15MN3N2□02	24	26	36	37	40
LQP15MN3N3□02	23	25	36	37	39
LQP15MN3N4□02	24	25	36	37	39
LQP15MN3N5□02	25	27	38	39	42
LQP15MN3N6□02	24	26	38	39	42
LQP15MN3N7□02	25	27	38	39	42
LQP15MN3N8□02	25	26	37	38	41
LQP15MN3N9□02	25	27	38	40	42
LQP15MN4N3□02	25	26	38	39	42
LQP15MN4N7□02	26	28	40	41	43
LQP15MN5N1□02	26	27	39	40	42
LQP15MN5N6□02	22	23	32	32	34
LQP15MN6N2□02	22	23	33	33	35
LQP15MN6N8□02	22	24	32	33	34
LQP15MN7N5□02	23	24	32	33	34
LQP15MN8N2□02	23	25	34	35	36
LQP15MN9N1□02	23	24	33	33	34
LQP15MN10N□02	23	24	31	31	-
LQP15MN12N□02	24	26	32	32	-
LQP15MN15N□02	23	24	28	28	-
LQP15MN18N□02	22	23	25	24	-
LQP15MN22N□02	23	24	24	22	-
LQP15MN27N□02	23	24	22	20	-
LQP15MN33N□02	22	23	20	-	-

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RF Inductor Part Numbering



① Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

② Structure

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

③ Dimensions (L×W)

Code	Dimensions (L×W)	EIA
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 Inductor (Coil)
M	LQP	Film Type
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	Standard Type
S	

⑩ Packaging

Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	LQH/LQW□□H*2
L	Embossed Taping (ø180mm Reel)	LQH/LQW2BA/LQW2UA/LQW□□H
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 LQP02T

*2 Except LQW21H

*3 Except 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 which 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.

⑦ Inductance Tolerance

Code	Inductance Tolerance
B	±0.1nH
C	±0.2nH
D	±0.5nH
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

*1 Except 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

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