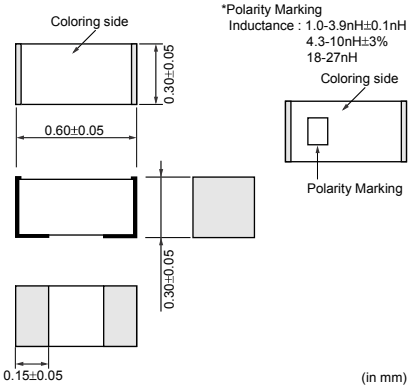
Chip Coils

muRata

High Frequency Film Type LQP03T/LQP15T/LQP15M/LQP18M Series

LQP03T Series

LQP03T series using Murata's original thin film technology contributes further to miniaturizing high performance equipment because the size is small and the Q-value is high.



■ Features

1. Ultra small and thin size 0.6x0.3x0.3mm
2. High Q value in high frequency range
3. E24 step
   0.6 to 3.9nH +-0.1nH
   4.3 to 10nH +-3%
4. E12 step
   0.6 to 3.9nH +-0.2nH
   4.7 to 15nH +-5%
   18 to 27nH +-3%, +-5%
5. Lead is not contained in the products.

■ Applications

1. High frequency circuits of mobile phones such as PA, ANT, VCO, SAW, etc.
2. Mobile phones such as GSM, CDMA, PDC, etc.
3. "Bluetooth"
4. W-LAN
5. High frequency circuits in general

Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP03TN0N6B00	0.6 ±0.1nH	500	420	0.08 max.	11	500	6000 min.	0201
LQP03TN0N6C00	0.6 ±0.2nH	500	420	0.08 max.	11	500	6000 min.	0201
LQP03TN0N7B00	0.7 ±0.1nH	500	410	0.09 max.	11	500	6000 min.	0201
LQP03TN0N8B00	0.8 ±0.1nH	500	410	0.09 max.	11	500	6000 min.	0201
LQP03TN0N8C00	0.8 ±0.2nH	500	410	0.09 max.	11	500	6000 min.	0201
LQP03TN0N9B00	0.9 ±0.1nH	500	400	0.10 max.	11	500	6000 min.	0201
LQP03TN1N0B00	1.0 ±0.1nH	500	400	0.10 max.	11	500	6000 min.	0201
LQP03TN1N0C00	1.0 ±0.2nH	500	400	0.10 max.	11	500	6000 min.	0201
LQP03TN1N1B00	1.1 ±0.1nH	500	280	0.13 max.	11	500	6000 min.	0201
LQP03TN1N2B00	1.2 ±0.1nH	500	280	0.13 max.	11	500	6000 min.	0201
LQP03TN1N2C00	1.2 ±0.2nH	500	280	0.13 max.	11	500	6000 min.	0201
LQP03TN1N3B00	1.3 ±0.1nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN1N5B00	1.5 ±0.1nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN1N5C00	1.5 ±0.2nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN1N6B00	1.6 ±0.1nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN1N8B00	1.8 ±0.1nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN1N8C00	1.8 ±0.2nH	500	280	0.16 max.	11	500	6000 min.	0201
LQP03TN2N0B00	2.0 ±0.1nH	500	220	0.18 max.	11	500	6000 min.	0201
LQP03TN2N2B00	2.2 ±0.1nH	500	220	0.18 max.	11	500	6000 min.	0201
LQP03TN2N2C00	2.2 ±0.2nH	500	220	0.18 max.	11	500	6000 min.	0201
LQP03TN2N4B00	2.4 ±0.1nH	500	220	0.21 max.	11	500	6000 min.	0201
LQP03TN2N7B00	2.7 ±0.1nH	500	220	0.21 max.	11	500	6000 min.	0201
LQP03TN2N7C00	2.7 ±0.2nH	500	220	0.21 max.	11	500	6000 min.	0201

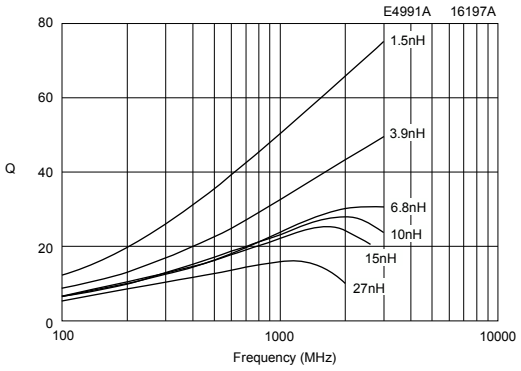
Continued on the following page.

Continued from the preceding page.

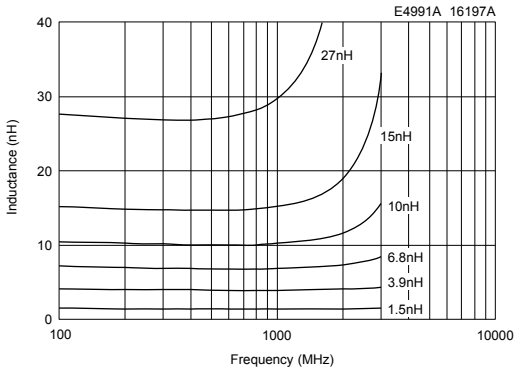
Part Number	Inductance (nH)	Test Frequency (MHz)	Rated Current (mA)	DC Resistance (ohm)	Q (min.)	Test Frequency (MHz)	Self Resonance Frequency (MHz)	EIA
LQP03TN3N0B00	3.0 ±0.1nH	500	190	0.30 max.	11	500	6000 min.	0201
LQP03TN3N3B00	3.3 ±0.1nH	500	190	0.30 max.	11	500	6000 min.	0201
LQP03TN3N3C00	3.3 ±0.2nH	500	190	0.30 max.	11	500	6000 min.	0201
LQP03TN3N6B00	3.6 ±0.1nH	500	170	0.45 max.	11	500	6000 min.	0201
LQP03TN3N9B00	3.9 ±0.1nH	500	170	0.45 max.	11	500	6000 min.	0201
LQP03TN3N9C00	3.9 ±0.2nH	500	170	0.45 max.	11	500	6000 min.	0201
LQP03TN4N3H00	4.3 ±3%	500	160	0.55 max.	11	500	6000 min.	0201
LQP03TN4N7H00	4.7 ±3%	500	160	0.55 max.	11	500	6000 min.	0201
LQP03TN4N7J00	4.7 ±5%	500	160	0.55 max.	11	500	6000 min.	0201
LQP03TN5N1H00	5.1 ±3%	500	140	0.68 max.	11	500	6000 min.	0201
LQP03TN5N6H00	5.6 ±3%	500	140	0.68 max.	11	500	6000 min.	0201
LQP03TN5N6J00	5.6 ±5%	500	140	0.68 max.	11	500	6000 min.	0201
LQP03TN6N2H00	6.2 ±3%	500	130	0.75 max.	11	500	6000 min.	0201
LQP03TN6N8H00	6.8 ±3%	500	130	0.75 max.	11	500	6000 min.	0201
LQP03TN6N8J00	6.8 ±5%	500	130	0.75 max.	11	500	6000 min.	0201
LQP03TN7N5H00	7.5 ±3%	500	110	0.86 max.	11	500	5500 min.	0201
LQP03TN8N2H00	8.2 ±3%	500	110	0.86 max.	11	500	5500 min.	0201
LQP03TN8N2J00	8.2 ±5%	500	110	0.86 max.	11	500	5500 min.	0201
LQP03TN9N1H00	9.1 ±3%	500	100	1.10 max.	11	500	4500 min.	0201
LQP03TN10NH00	10 ±3%	500	100	1.10 max.	11	500	4500 min.	0201
LQP03TN10NJ00	10 ±5%	500	100	1.10 max.	11	500	4500 min.	0201
LQP03TN12NJ00	12 ±5%	500	90	1.25 max.	11	500	3700 min.	0201
LQP03TN15NJ00	15 ±5%	500	90	1.50 max.	11	500	3300 min.	0201
LQP03TN18NH00	18 ±3%	500	80	2.0 max.	11	500	3100 min.	0201
LQP03TN18NJ00	18 ±5%	500	80	2.0 max.	11	500	3100 min.	0201
LQP03TN22NH00	22 ±3%	500	70	2.6 max.	11	500	2800 min.	0201
LQP03TN22NJ00	22 ±5%	500	70	2.6 max.	11	500	2800 min.	0201
LQP03TN27NH00	27 ±3%	500	70	3.1 max.	11	500	2500 min.	0201
LQP03TN27NJ00	27 ±5%	500	70	3.1 max.	11	500	2500 min.	0201

Operating Temp. Range : -40°C to +85°C

■ Q-Frequency Characteristics



■ Inductance-Frequency Characteristics



Continued on the following page.

Continued from the preceding page.

■ Reference Data

E4991A & 16197A

Part Number	Inductance (nH) (Typ.)					Q (Typ.)				
	800MHz	900MHz	1.8GHz	2.0GHz	2.4GHz	800MHz	900MHz	1.8GHz	2.0GHz	2.4GHz
LQP03TN0N6B00	0.6	0.6	0.6	0.6	0.6	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN0N6C00	0.6	0.6	0.6	0.6	0.6	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN0N7B00	0.7	0.7	0.7	0.7	0.7	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN0N8B00	0.8	0.8	0.8	0.8	0.8	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN0N8C00	0.8	0.8	0.8	0.8	0.8	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN0N9B00	0.9	0.9	0.9	0.9	0.9	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN1N0B00	1.0	1.0	1.0	1.0	1.0	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN1N0C00	1.0	1.0	1.0	1.0	1.0	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN1N1B00	1.1	1.1	1.1	1.1	1.1	50 min.	54 min.	70 min.	73 min.	77 min.
LQP03TN1N2B00	1.2	1.2	1.2	1.2	1.2	50	54	70	73	77
LQP03TN1N2C00	1.2	1.2	1.2	1.2	1.2	50	54	70	73	77
LQP03TN1N3B00	1.3	1.3	1.3	1.3	1.3	48	52	67	72	74
LQP03TN1N5B00	1.5	1.5	1.5	1.5	1.5	45	48	63	66	69
LQP03TN1N5C00	1.5	1.5	1.5	1.5	1.5	45	48	63	66	69
LQP03TN1N6B00	1.6	1.6	1.6	1.6	1.6	43	47	57	64	67
LQP03TN1N8B00	1.8	1.8	1.8	1.8	1.8	36	38	50	53	55
LQP03TN1N8C00	1.8	1.8	1.8	1.8	1.8	36	38	50	53	55
LQP03TN2N0B00	2.0	2.0	2.0	2.0	2.0	38	40	52	54	57
LQP03TN2N2B00	2.2	2.2	2.2	2.2	2.2	28	35	49	52	54
LQP03TN2N2C00	2.2	2.2	2.2	2.2	2.2	28	35	49	52	54
LQP03TN2N4B00	2.4	2.4	2.4	2.4	2.4	36	38	50	53	56
LQP03TN2N7B00	2.7	2.7	2.7	2.7	2.7	28	30	40	42	44
LQP03TN2N7C00	2.7	2.7	2.7	2.7	2.7	28	30	40	42	44
LQP03TN3N0B00	3.0	3.0	3.0	3.0	3.0	28	29	39	41	43
LQP03TN3N3B00	3.3	3.3	3.3	3.3	3.4	29	31	42	43	45
LQP03TN3N3C00	3.3	3.3	3.3	3.3	3.4	29	31	42	43	45
LQP03TN3N6B00	3.6	3.6	3.6	3.7	3.7	31	33	43	45	47
LQP03TN3N9B00	3.9	3.9	3.9	4.0	4.1	29	31	41	43	45
LQP03TN3N9C00	3.9	3.9	3.9	4.0	4.1	29	31	41	43	45
LQP03TN4N3H00	4.3	4.3	4.3	4.4	4.5	28	30	40	42	44
LQP03TN4N7H00	4.7	4.7	4.8	4.9	5.1	28	30	40	42	43
LQP03TN4N7J00	4.7	4.7	4.8	4.9	5.1	28	30	40	42	43
LQP03TN5N1H00	5.1	5.1	5.2	5.3	5.5	26	28	37	39	40
LQP03TN5N6H00	5.6	5.6	5.8	5.9	6.1	22	24	32	33	33
LQP03TN5N6J00	5.6	5.6	5.8	5.9	6.1	22	24	32	33	33
LQP03TN6N2H00	6.2	6.2	6.5	6.6	6.9	20	21	27	28	28
LQP03TN6N8H00	6.8	6.8	7.1	7.4	7.7	21	22	29	30	30
LQP03TN6N8J00	6.2	6.2	6.5	6.6	6.9	20	21	27	28	28
LQP03TN7N5H00	7.5	7.5	7.9	8.2	8.7	21	22	28	30	29
LQP03TN8N2H00	8.2	8.2	8.6	9.1	9.6	18	19	25	25	24
LQP03TN8N2J00	8.2	8.2	8.6	9.1	9.6	18	19	25	25	24
LQP03TN9N1H00	9.1	9.1	9.9	10	11	20	21	26	26	25
LQP03TN10NH00	10	10	11	12	13	21	22	28	28	27
LQP03TN10NJ00	10	10	11	12	13	21	22	28	28	27
LQP03TN12NJ00	12	12	13	14	16	21	22	27	27	25
LQP03TN15NJ00	15	15	18	19	23	21	21	25	24	22
LQP03TN18NH00	18	18	24	-	-	18	19	20	-	-
LQP03TN18NJ00	18	18	24	-	-	18	19	20	-	-
LQP03TN22NH00	22	23	32	-	-	16	17	16	-	-
LQP03TN22NJ00	22	23	32	-	-	16	17	16	-	-
LQP03TN27NH00	28	29	47	-	-	15	15	13	-	-
LQP03TN27NJ00	28	29	47	-	-	15	15	13	-	-