DESCRIPTION

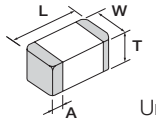
The LLV0603-FB Series is a multilayer ceramic chip inductor in an EIA standard 0201 footprint with very high self-resonant frequency characteristics and no requirements for magnetic polarity orientation.

FEATURES

- Inductance range: 1.0-22nH
- Miniature size: 0201 footprint (0.6mm x 0.3mm)
- Inductance specified at 100MHz and 800MHz
- Self-resonant frequency specified at ±20%
- Q: 16 ~ 22 typical (at 1800MHz)
- Temperature coefficient of inductance: +250ppm/°C
- Temperature range: –55°C to +125°C
- S-parameter data available upon request
- Packaged on tape and reel in 15,000 piece quantity
- Reflow solderable
- Lead-free terminations

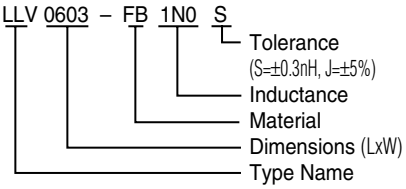
DIMENSIONS

Length L (mm)	Width W (mm)	Thickness T (mm)	Electrode width A (mm)
0.6±0.03	0.3±0.03	0.3±0.03	0.1~0.2



Unit: mm

PART NUMBERING



STANDARD PARTS SELECTION GUIDE

TYPE LLV0603-FB

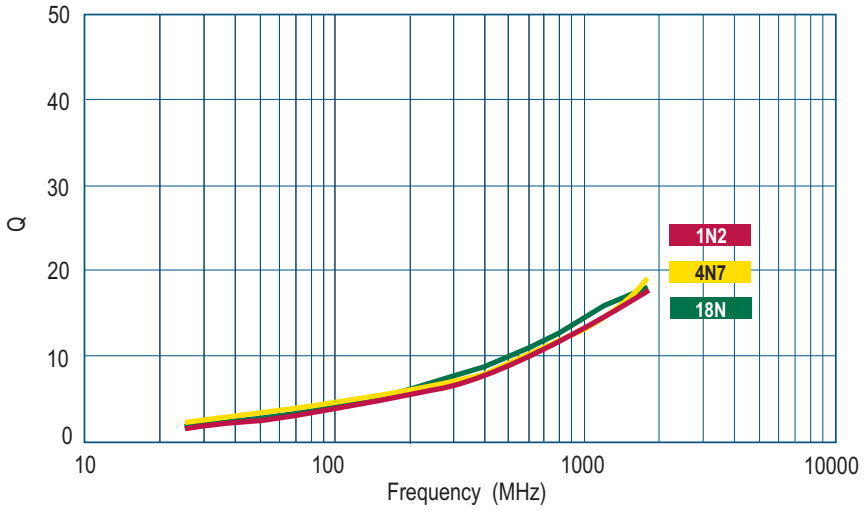
TOKO Part Number	Inductance & Tolerance				Q min.	Q (Typ.)						SRF (MHz)	RDC (Ω) max.	IDC (mA) max.
	at 100MHz		at 800MHz											
	Lo (nH)	L Tol.*	Lo (nH)	L Tol.*	100 MHz	100 MHz	300 MHz	500 MHz	800 MHz	1000 MHz	1800 MHz			
LLV0603-FB1N0S	1.0	S	1.1	± 0.5nH	3	3.9	6.8	8.8	11.4	12.7	16.6	20000 min	0.15	170
LLV0603-FB1N2S	1.2	S	1.3	± 0.5nH	3	4.0	6.9	9.2	11.9	13.3	17.8	20000 min	0.15	170
LLV0603-FB1N5S	1.5	S	1.6	± 0.5nH	3	4.1	6.9	9.2	11.8	13.3	17.8	20000 min	0.15	170
LLV0603-FB1N8S	1.8	S	1.8	± 0.5nH	3	4.1	7.0	9.3	11.0	13.4	18.1	20000 min	0.20	170
LLV0603-FB2N2S	2.2	S	2.2	± 0.5nH	3	4.2	7.1	9.2	10.8	13.2	18.5	20000 min	0.20	150
LLV0603-FB2N7S	2.7	S	2.3	± 0.5nH	3	3.9	6.4	8.1	10.3	11.5	16.2	20000 ± 20%	0.25	150
LLV0603-FB3N3S	3.3	S	2.9	± 0.5nH	3	4.3	7.1	9.0	11.5	12.9	18.2	18000 ± 20%	0.30	150
LLV0603-FB3N9S	3.9	S	3.3	± 0.5nH	3	5.5	7.6	9.7	12.1	13.4	19.3	11000 ± 20%	0.35	150
LLV0603-FB4N7S	4.7	S	4.0	± 0.5nH	3	5.6	7.5	9.5	12.0	13.4	19.2	9600 ± 20%	0.40	150
LLV0603-FB5N6S	5.6	S	4.9	± 0.5nH	3.5	4.7	7.7	9.9	12.6	14.1	20.3	9100 ± 20%	0.45	150
LLV0603-FB6N8J	6.8	J	6.0	± 7%	3.5	4.7	7.6	9.8	12.5	14.0	20.1	8400 ± 20%	0.50	150
LLV0603-FB8N2J	8.2	J	7.0	± 7%	3.5	4.4	6.8	8.5	12.7	11.8	16.4	7600 ± 20%	0.60	150
LLV0603-FB10NJ	10	J	9.0	± 7%	3.5	5.0	8.1	10.4	13.0	14.6	20.6	6700 ± 20%	0.70	150
LLV0603-FB12NJ	12	J	11	± 7%	4	5.0	8.4	10.8	12.7	15.4	21.5	6400 ± 20%	0.85	100
LLV0603-FB15NJ	15	J	13	± 7%	4	4.8	8.1	10.3	13.2	14.8	19.7	5800 ± 20%	1.00	100
LLV0603-FB18NJ	18	J	16	± 7%	4	4.8	8.0	10.2	13.0	14.6	19.1	5300 ± 20%	1.30	100
LLV0603-FB22NJ	22	J	19	± 7%	3.5	4.7	8.0	10.4	13.2	14.8	20.6	5000 ± 20%	2.00	100

* Add tolerance to part number: S=±0.3nH, J = ±5%

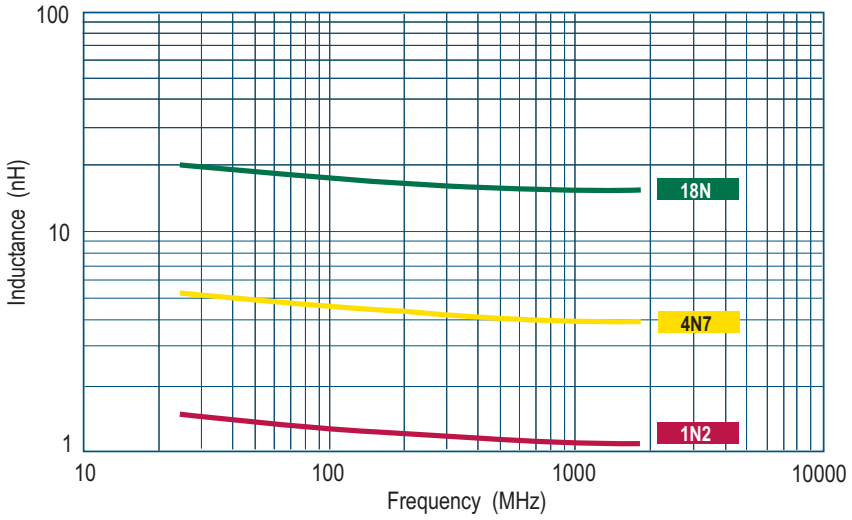
Testing Conditions: (1) L,Q: Agilent 4291A/B (Test fixture Agilent 16196C) (2) SRF: Agilent 8719D, 8720D (3) RDC: Agilent 4338A-/B

ELECTRICAL CHARACTERISTICS

Q vs. Frequency



Inductance vs. Frequency



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