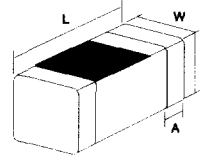


LL1608-F Multilayer Chip Inductor

The LL1608-F Series is a miniature multilayer ceramic chip inductor. Toko's proprietary laminated ceramic material provides high SRF, excellent Q, and superior reliability. It is available in 3% tolerance for 22nH and above. It has an industry standard 0603 footprint and comes on tape in 4,000 piece reels. It is an ideal solution for miniature inductor needs in high frequency RF and Wireless communications equipment.



Dimensions

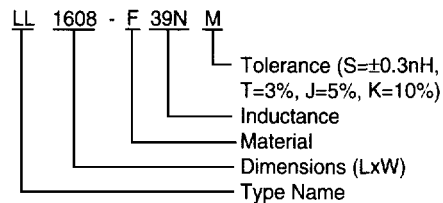


Features

- Laminated ceramic allows high SRF
- Miniature size: 0603 footprint
- Inductance range: 1.2 ~ 100 nH
- Q: 25 ~ 30 typical at 800 MHz
- Operating Temperature Range: -40°C ~ +100°C
- Packaged on tape and reel

Type	L(mm)	W(mm)	T(mm)	A(mm)
LL1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2

Part Numbering



Standard Part Numbers

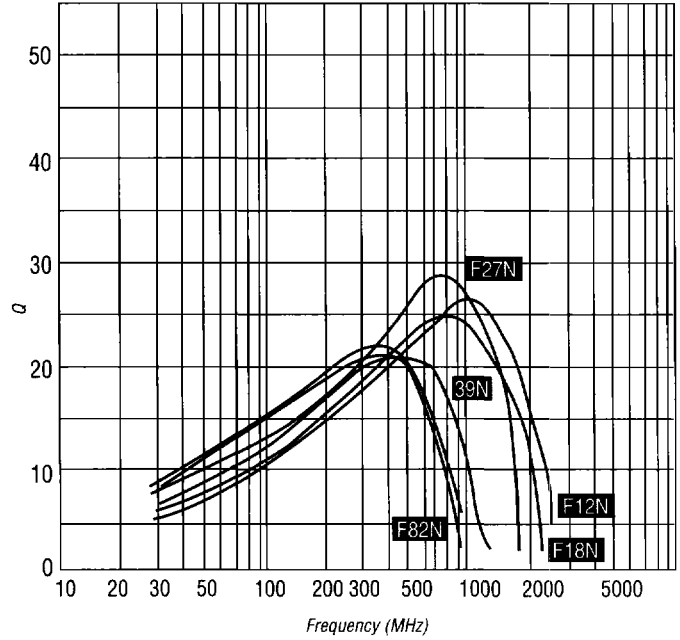
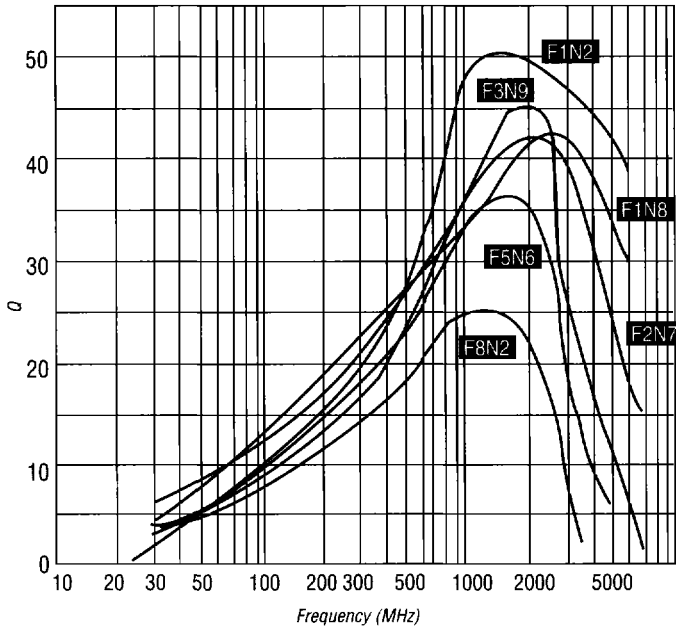
TOKO Part Number	Lo (nH) ⁽¹⁾	L Tol.*	Q 100MHz (typ) ⁽¹⁾	Q 800MHz (typ) ⁽¹⁾	SRF MHz (typ) ⁽²⁾	RDCΩ (max) ⁽³⁾	IDC mA (max)	Qty/reel
LL1608-F1N2S	1.2	S	10	40	>6000	0.10	300	4000
LL1608-F1N5S	1.5	S	10	38	>6000	0.10	300	4000
LL1608-F1N8S	1.8	S	10	36	>6000	0.12	300	4000
LL1608-F2N2S	2.2	S	10	34	>6000	0.16	300	4000
LL1608-F2N7S	2.7	S	10	32	>6000	0.20	300	4000
LL1608-F3N3*	3.3	S,K	10	30	5700	0.22	300	4000
LL1608-F3N9*	3.9	S,K	10	32	5600	0.25	300	4000
LL1608-F4N7*	4.7	S,K	10	32	4800	0.28	300	4000
LL1608-F5N6*	5.6	S,K	10	32	4350	0.29	300	4000
LL1608-F6N8*	6.8	J,K	11	32	3750	0.30	300	4000
LL1608-F8N2*	8.2	J,K	11	28	3300	0.33	300	4000
LL1608-F10N*	10.0	J,K	11	31	2850	0.35	300	4000
LL1608-F12N*	12.0	J,K	11	30	2700	0.40	300	4000
LL1608-F15N*	15.0	J,K	11	26	2400	0.45	300	4000
LL1608-F18N*	18.0	J,K	11	25	2050	0.50	300	4000
LL1608-F22N*	22.0	T,J,K	14	30	1850	0.55	300	4000
LL1608-F27N*	27.0	T,J,K	14	26	1750	0.60	300	4000
LL1608-F33N*	33.0	T,J,K	14	24	1500	0.65	300	4000
LL1608-F39N*	39.0	T,J,K	14	20	1350	0.70	300	4000
LL1608-F47N*	47.0	T,J,K	14	18	1200	0.90	300	4000
LL1608-F56N*	56.0	T,J,K	15	14	1100	1.00	300	4000
LL1608-F68N*	68.0	T,J,K	16	18	1000	1.50	300	4000
LL1608-F82N*	82.0	T,J,K	15	18	900	2.00	300	4000
LL1608-FR10*	100	T,J,K	15	3	830	2.50	300	4000

* Add tolerance to part number: T=3%, S=±0.3nH, J=5%, K=10%

Testing Conditions: (1.) L,Q: HP4291A at 100MHz (Test fixture 16192A) (2.) SRF: HP8753C (Test fixture 16091A) (3.) RDC: VP-2811A Panasonic

LL1608-F Multilayer Chip Inductor

Q vs. Frequency



Inductance vs. Frequency

