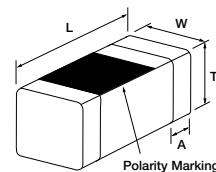


The LL2012-FH Series is a miniature multilayer ceramic chip inductor in a standard 0805 footprint. TOKO's proprietary laminated ceramic material provides high SRF, excellent Q, and superior reliability. These inductors are an ideal solution for signal shaping or RF filtering for high frequency RF and wireless communication devices.



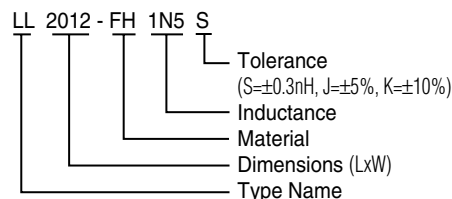
Unit: mm

Type	L (mm)	W (mm)	T (mm)	A (mm)
LL2012FH	2.0±0.2	1.25±0.2	0.60±0.2	0.5±0.3
			0.85±0.3	
			1.00±0.3	
			1.20±0.3	

Features

- Inductance range: 1.5-680nH (E-12 Series)
- Miniature size: 0805 footprint (2mm x 1.2mm)
- Laminated ceramic allows high SRF over 6 GHz
- Q: 40 ~ 90 typical (at 800MHz)
- Temperature coefficient: +250ppm/°C
- Temperature range: -40°C to +100°C
- S-parameter data available upon request
- Packaged on tape and reel in 3,000 & 4,000 piece quantity
- Reflow solderable

Part Numbering



STANDARD PARTS SELECTION GUIDE

TYPE LL2012-FH

TOKO Part Number	Inductance (nH) at 100MHz	Inductance Tolerance *	Q (typ.) at---MHz			SRF (MHz) typ.	RDC (Ω) max.	IDC (mA) max.	Height T (mm)	Qty/reel
			100	800	1800					
LL2012-FH1N5S	1.5	S	15	50	60	7000	0.10	300	0.60 ± 0.2	4000
LL2012-FH1N8S	1.8	S	15	51	61	6800	0.10	300	0.60 ± 0.2	4000
LL2012-FH2N2S	2.2	S	19	61	125	5700	0.10	300	0.60 ± 0.2	4000
LL2012-FH2N7S	2.7	S	21	62	75	5350	0.10	300	0.60 ± 0.2	4000
LL2012-FH3N3_*	3.3	S, K	21	64	79	4300	0.10	300	0.60 ± 0.2	4000
LL2012-FH3N9_*	3.9	S, K	17	59	90	4000	0.10	300	0.60 ± 0.2	4000
LL2012-FH4N7_*	4.7	S, K	17	55	55	3600	0.12	300	0.60 ± 0.2	4000
LL2012-FH5N6_*	5.6	S, K	17	51	52	3500	0.15	300	0.60 ± 0.2	4000
LL2012-FH6N8_*	6.8	J, K	20	58	53	3000	0.15	300	0.60 ± 0.2	4000
LL2012-FH8N2_*	8.2	J, K	20	58	55	2800	0.18	300	0.60 ± 0.2	4000
LL2012-FH10N_*	10	J, K	20	58	55	2600	0.20	300	0.85 ± 0.3	4000
LL2012-FH12N_*	12	J, K	21	61	70	2250	0.22	300	0.85 ± 0.3	4000
LL2012-FH15N_*	15	J, K	17	48	38	2250	0.24	300	0.85 ± 0.3	4000
LL2012-FH18N_*	18	J, K	21	58	—	2000	0.26	300	0.85 ± 0.3	4000
LL2012-FH22N_*	22	J, K	22	59	—	1800	0.28	300	0.85 ± 0.3	4000
LL2012-FH27N_*	27	J, K	21	54	—	1600	0.30	300	0.85 ± 0.3	4000
LL2012-FH33N_*	33	J, K	22	54	—	1400	0.40	300	0.85 ± 0.3	4000
LL2012-FH39N_*	39	J, K	23	50	—	1300	0.50	300	0.85 ± 0.3	4000
LL2012-FH47N_*	47	J, K	24	47	—	1150	0.55	300	1.00 ± 0.3	3000
LL2012-FH56N_*	56	J, K	25	45	—	1050	0.60	300	1.00 ± 0.3	3000
LL2012-FH68N_*	68	J, K	26	—	—	950	0.65	300	1.00 ± 0.3	3000
LL2012-FH82N_*	82	J, K	28	—	—	800	0.70	300	1.00 ± 0.3	3000
LL2012-FHR10_*	100	J, K	27	—	—	700	0.80	300	1.00 ± 0.3	3000
LL2012-FHR12_*	120	J, K	**22	—	—	650	0.85	250	1.2 ± 0.3	3000
LL2012-FHR15_*	150	J, K	**21	—	—	550	0.90	250	1.2 ± 0.3	3000
LL2012-FHR18_*	180	J, K	**22	—	—	500	1.0	250	1.2 ± 0.3	3000
LL2012-FHR22_*	220	J, K	**22	—	—	450	3.0	200	1.2 ± 0.3	3000
LL2012-FHR27_*	270	J, K	***14	—	—	350	3.5	200	1.2 ± 0.3	3000
LL2012-FHR33_*	330	J, K	***14	—	—	350	4.0	150	1.2 ± 0.3	3000
LL2012-FHR39_*	390	J, K	***15	—	—	300	4.5	150	1.2 ± 0.3	3000
LL2012-FHR47_*	470	J, K	***14	—	—	260	5.0	50	1.2 ± 0.3	3000
LL2012-FHR56_*	560	J, K	***15	—	—	230	5.5	50	1.2 ± 0.3	3000
LL2012-FHR68_*	680	J, K	***14	—	—	180	6.0	50	1.2 ± 0.3	3000

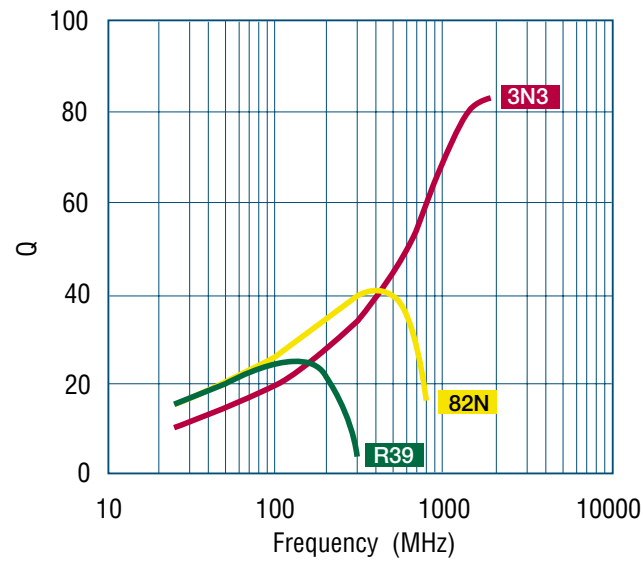
* Add tolerance to part number: S=±0.3nH, J = ±5%, K = ±10%

50MHz *25MHz

Testing Conditions: (1) L,Q: Agilent 4291A at 100MHz (Test fixture Agilent 16192A) (2) SRF: Agilent 8719D (3) RDC: Agilent 4338B

ELECTRICAL CHARACTERISTICS

Q vs. Frequency



Inductance vs. Frequency

