

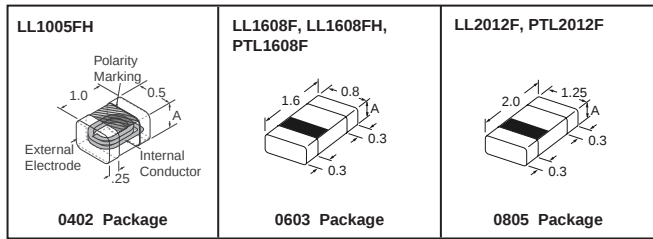
Surface Mount Inductors

LL1005FH Type, LL1608FH Type, LL1608F Type, LL2012F Type, PTL1608F Type, PTL2012F Type

FEATURES:

LL1005FH – World's Smallest Chip Inductor. For reflow soldering • Temperature Coefficient: +250ppm/°C max. • Temperature Range: -40°C to 100°C. Miniature size (1.0mm x 0.5mm). **LL1608F & LL2012F** – For Reflow Soldering • Temperature Coefficient: +250ppm/°C max. • Temperature Range: -40°C to 100°C • Features: Laminated ceramic allows high SRF.

The **PTL1608** and **PTL2012 Series** is a photolithographically etched single layer ceramic chip inductor providing high SRF, excellent Q, and superior temperature stability. Highly stable and specifically designed for critical tolerance inductor needs. Solves the tight tolerance needs of GaAs matching and VCO circuits. **Tolerance:** C=±0.2nH, S=±0.3nH, T=3%



Dim. A (mm)	Lo (nH)	Tol.	Q (typ)	SRF MHz (typ)	IDC mA (Max)	Digi-Key Part No.	Cut Tape Price Each 10 100 500	★Tape & Reel Pricing	Toko Part No.
LL1005FH									
0.50	1.0	±0.3nH	30	>6000	300	TKS2580CT-ND	.68 .63 .32	1790.00/10000	LL1005-FH1N0S
0.50	1.2	±0.3nH	30	>6000	300	TKS2581CT-ND	.68 .63 .32	1790.00/10000	LL1005-FH1N2S
0.50	1.5	±0.3nH	30	>6000	300	TKS2582CT-ND	.68 .63 .32	1790.00/10000	LL1005-FH1N5S
0.50	1.8	±0.3nH	30	>6000	300	TKS2583CT-ND	.68 .63 .32	1790.00/10000	LL1005-FH1N8S
0.50	2.2	±0.3nH	30	>6000	300	TKS2584CT-ND	.68 .63 .32	1790.00/10000	LL1005-FH2N2S
0.50	2.7	±0.3nH	30	5500	300	TKS2585CT-ND	.68 .63 .32	1790.00/10000	LL1005-FH2N7S
0.50	3.3	±10%	28	5000	300	TKS2586CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH3N3K
0.50	3.9	±10%	30	4700	300	TKS2587CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH3N9K
0.50	4.7	±10%	28	4300	300	TKS2588CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH4N7K
0.50	5.6	±10%	28	4000	300	TKS2589CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH5N6K
0.50	6.8	±10%	28	3650	300	TKS2590CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH6N8K
0.50	8.2	±10%	28	3200	300	TKS2591CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH8N2K
0.50	10.0	±10%	23	2800	300	TKS2592CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH10NK
0.50	12.0	±10%	24	2700	300	TKS2593CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH12NK
0.50	15.0	±10%	25	2200	300	TKS2594CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH15NK
0.50	18.0	±10%	17	2000	300	TKS2595CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH18NK
0.50	22.0	±10%	23	1800	300	TKS2596CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH22NK
0.50	27.0	±10%	20	1600	300	TKS2597CT-ND	.60 .56 .28	1590.00/10000	LL1005-FH27NK
TK10-KIT-ND (SPK-LL1005FH-5%)									
LL1005-FH Chip Inductor Kit - 10 each of 25 values (250 parts), 1.0nH-100nH.....\$40.50									
LL1608F									
0.80	1.5	±0.3nH	60	>6000	300	TKS2353CT-ND	.68 .61 .30	844.00/4000	LL1608-F1N5S
0.80	1.8	±0.3nH	37	>6000	300	TKS2354CT-ND	.68 .61 .30	844.00/4000	LL1608-F1N8S
0.80	2.2	±0.3nH	35	>6000	300	TKS2355CT-ND	.68 .61 .30	844.00/4000	LL1608-F2N2S
0.80	2.7	±0.3nH	30	>6000	300	TKS2356CT-ND	.68 .61 .30	844.00/4000	LL1608-F2N7S
0.80	3.3	±10%	30	5500	300	TKS2357CT-ND	.68 .61 .30	844.00/4000	LL1608-F3N3K
0.80	3.9	±10%	31	5700	300	TKS2340CT-ND	.68 .61 .30	840.00/4000	LL1608-F3N9K
0.80	4.7	±10%	31	4800	300	TKS2341CT-ND	.68 .61 .30	840.00/4000	LL1608-F4N7K
0.80	5.6	±10%	27	4600	300	TKS2342CT-ND	.68 .61 .30	840.00/4000	LL1608-F5N6K
0.80	6.8	±10%	27	3550	300	TKS2343CT-ND	.68 .61 .30	840.00/4000	LL1608-F6N8K
0.80	8.2	±10%	26	3500	300	TKS2344CT-ND	.68 .61 .30	840.00/4000	LL1608-F8N2K
0.80	10.0	±10%	26	2750	300	TKS2345CT-ND	.68 .61 .30	840.00/4000	LL1608-F10NK
0.80	12.0	±10%	24	2750	300	TKS2346CT-ND	.68 .61 .30	840.00/4000	LL1608-F12NK
0.80	15.0	±10%	24	2300	300	TKS2347CT-ND	.68 .61 .30	840.00/4000	LL1608-F15NK
0.80	18.0	±10%	24	2300	300	TKS2348CT-ND	.68 .61 .30	840.00/4000	LL1608-F18NK
0.80	22.0	±10%	25	2000	300	TKS2349CT-ND	.68 .61 .30	840.00/4000	LL1608-F22NK
0.80	27.0	±10%	25	1750	300	TKS2350CT-ND	.68 .61 .30	840.00/4000	LL1608-F27NK
0.80	33.0	±10%	24	1500	300	TKS2351CT-ND	.68 .61 .30	840.00/4000	LL1608-F33NK
0.80	39.0	±10%	20	1300	300	TKS2352CT-ND	.68 .61 .30	840.00/4000	LL1608-F39NK
0.80	47.0	±10%	18	1200	300	TKS2381CT-ND	.68 .63 .32	1004.00/4000	LL1608-F47NK
0.80	56.0	±10%	14	1100	300	TKS2382CT-ND	.68 .63 .32	1004.00/4000	LL1608-F56NK
0.80	82.0	±10%	18	900	300	TKS2384CT-ND	.68 .63 .32	1004.00/4000	LL1608-F82NK
0.80	100.0	±10%	3	830	300	TKS2385CT-ND	.68 .63 .32	1008.00/4000	LL1608-FR10K
LL1608FH									
0.80	1.2	±0.3nH	13	>6000	1000	TKS3700CT-ND	.68 .61 .30	840.00/4000	LL1608-FH1N2S
0.80	1.5	±0.3nH	13	>6000	1000	TKS3701CT-ND	.68 .61 .30	840.00/4000	LL1608-FH1N5S
0.80	1.8	±0.3nH	12	>6000	1000	TKS3702CT-ND	.68 .61 .30	840.00/4000	LL1608-FH1N8S
0.80	2.2	±0.3nH	12	>6000	1000	TKS3703CT-ND	.68 .61 .30	840.00/4000	LL1608-FH2N2S
0.80	2.7	±0.3nH	12	>6000	1000	TKS3704CT-ND	.68 .61 .30	840.00/4000	LL1608-FH2N7S
0.80	3.3	±0.3nH	12	5900	1000	TKS3705CT-ND	.68 .61 .30	840.00/4000	LL1608-FH3N3S
0.80	3.9	±0.3nH	13	5600	1000	TKS3706CT-ND	.68 .61 .30	840.00/4000	LL1608-FH3N9S
0.80	4.7	±0.3nH	12	4800	1000	TKS3707CT-ND	.68 .61 .30	840.00/4000	LL1608-FH4N7S
0.80	5.6	±0.3nH	12	4350	600	TKS3708CT-ND	.68 .61 .30	840.00/4000	LL1608-FH5N6S
0.80	6.8	±5%	12	3750	600	TKS3709CT-ND	.68 .61 .30	840.00/4000	LL1608-FH6N8J
0.80	8.2	±5%	13	3300	600	TKS3710CT-ND	.68 .61 .30	840.00/4000	LL1608-FH8N2J

Dim. A (mm)	Lo (nH)	Tol.	Q (typ)	SRF MHz (typ)	IDC mA (Max)	Digi-Key Part No.	Cut Tape Price Each			★Tape & Reel Pricing	Toko Part No.
							10	100	500		
0.80	10.0	±5%	13	2850	600	TKS3711CT-ND	.68	.61	.30	840.00/4000	LL1608-FH10NJ
0.80	12.0	±5%	15	2500	600	TKS3712CT-ND	.68	.61	.30	840.00/4000	LL1608-FH12NJ
0.80	15.0	±5%	15	2150	600	TKS3713CT-ND	.68	.61	.30	840.00/4000	LL1608-FH15NJ
0.80	18.0	±5%	16	2050	600	TKS3714CT-ND	.68	.61	.30	840.00/4000	LL1608-FH18NJ
0.80	22.0	±5%	17	1850	600	TKS3715CT-ND	.68	.61	.30	840.00/4000	LL1608-FH22NJ
0.80	27.0	±5%	17	1750	600	TKS3716CT-ND	.68	.61	.30	840.00/4000	LL1608-FH27NJ
0.80	33.0	±5%	18	1500	600	TKS3717CT-ND	.68	.61	.30	840.00/4000	LL1608-FH33NJ
0.80	39.0	±5%	17	1350	500	TKS3718CT-ND	.68	.61	.30	840.00/4000	LL1608-FH39NJ
0.80	47.0	±5%	17	1200	500	TKS3719CT-ND	.68	.61	.30	840.00/4000	LL1608-FH47NJ
0.80	56.0	±5%	17	1100	500	TKS3720CT-ND	.68	.61	.30	840.00/4000	LL1608-FH56NJ
0.80	68.0	±5%	18	1000	400	TKS3721CT-ND	.68	.61	.30	840.00/4000	LL1608-FH68NJ
0.80	82.0	±5%	18	900	300	TKS3722CT-ND	.68	.61	.30	840.00/4000	LL1608-FH82NJ
0.80	100	±5%	18	830	300	TKS3723CT-ND	.68	.61	.30	840.00/4000	LL1608-FH10J
PTL1608F											
0.50	1.0	±0.2nH	11	12500	1000	TKS2900CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N0C
0.50	1.2	±0.2nH	10	11500	900	TKS2901CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N2C
0.50	1.5	±0.2nH	9	10000	800	TKS2902CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N5C
0.50	1.8	±0.2nH	10	9250	700	TKS2903CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N8C
0.50	2.2	±0.2nH	9	8400	650	TKS2904CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F2N2C
0.50	2.7	±0.2nH	10	7400	600	TKS2905CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F2N7C
0.50	3.3	±0.2nH	9	6600	500	TKS2906CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F3N3C
0.50	3.9	±0.2nH	9	5850	500	TKS2907CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F3N9C
0.50	4.7	±0.2nH	10	5200	450	TKS2908CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F4N7C
0.50	5.6	±0.2nH	10	4700	400	TKS2909CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F5N6C
0.50	6.8	±0.3nH	9	4200	350	TKS2910CT-ND	.75	.67	.33	1260.00/6000	PTL1608-F6N8S
0.50	8.2	±0.3nH	9	3750	300	TKS2911CT-ND	.75	.67	.33	1260.00/6000	PTL1608-F8N2S
0.50	10	3%	9	3250	250	TKS2912CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F10NT
0.50	12	3%	8	3100	200	TKS2913CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F12NT
0.50	15	3%	8	2650	200	TKS2914CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F15NT
0.50	18	3%	8	2400	180	TKS2915CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F18NT
LL2012F											
0.60	1.8	±0.3nH	42	6000	300	TKS2360CT-ND	.90	.81	.40	1120.00/4000	LL2012-F1N8S
0.60	2.2	±0.3nH	44	6000	300	TKS2361CT-ND	.90	.81	.40	1120.00/4000	LL2012-F2N2S
0.60	2.7	±0.3nH	32	6000	300	TKS2362CT-ND	.90	.81	.40	1120.00/4000	LL2012-F2N7S
0.60	3.3	±10%	36	6000	300	TKS2363CT-ND	.75	.67	.33	932.00/4000	LL2012-F3N3K
0.60	3.9	±10%	46	5400	300	TKS2364CT-ND	.75	.67	.33	932.00/4000	LL2012-F3N9K
0.60	4.7	±10%	45	4500	300	TKS2365CT-ND	.75	.67	.33	932.00/4000	LL2012-F4N7K
0.60	5.6	±10%	47	4000	300	TKS2366CT-ND	.75	.67	.33	932.00/4000	LL2012-F5N6K
0.60	6.8	±10%	44	3650	300	TKS2367CT-ND	.75	.67	.33	932.00/4000	LL2012-F6N8K
0.60	8.2	±10%	46	3000	300	TKS2368CT-ND	.75	.67	.33	932.00/4000	LL2012-F8N2K
0.85	10.0	±10%	40	2500	300	TKS2369CT-ND	.75	.67	.33	932.00/4000	LL2012-F10NK
0.85	12.0	±10%	40	2450	300	TKS2370CT-ND	.75	.67	.33	932.00/4000	LL2012-F12NK
0.85	15.0	±10%	43	2000	300	TKS2371CT-ND	.75	.67	.33	932.00/4000	LL2012-F15NK
0.85	18.0	±10%	42	1750	300	TKS2372CT-ND	.75	.67	.33	932.00/4000	LL2012-F18NK
0.85	22.0	±10%	42	1700	300	TKS2373CT-ND	.75	.67	.33	932.00/4000	LL2012-F22NK
0.85	33.0	±10%	44	1350	300	TKS2375CT-ND	.75	.67	.33	932.00/4000	LL2012-F33NK
0.85	39.0	±10%	39	1300	300	TKS2376CT-ND	.75	.67	.33	932.00/4000	LL2012-F39NK
1.00	47.0	±10%	36	1200	300	TKS2377CT-ND	.75	.67	.33	699.00/3000	LL2012-F47NK
1.00	56.0	±10%	36	1150	300	TKS2378CT-ND	.75	.67	.33	699.00/3000	LL2012-F56NK
1.00	68.0	±10%	35	1000	300	TKS2379CT-ND	.75	.67	.33	699.00/3000	LL2012-F68NK
1.00	82.0	±10%	25	850	300	TKS2380CT-ND	.75	.67	.33	699.00/3000	LL2012-F82NK
1.00	100.0	±10%	18	730	300	TKS2386CT-ND	.75	.70	.35	840.00/3000	LL2012-FR10K
1.10	120.0	±10%	19	650	250	TKS2387CT-ND	.75	.70	.35	840.00/3000	LL2012-FR12K
1.10	150.0	±10%	20	550	250	TKS2388CT-ND	.75	.70	.35	840.00/3000	LL2012-FR15K
1.10	180.0	±10%	20	500	250	TKS2389CT-ND	.75	.70	.35	840.00/3000	LL2012-FR18K
1.10	220.0	±10%	20	450	200	TKS2390CT-ND	.75	.70	.35	840.00/3000	LL2012-FR22K
1.10	270.0	±10%	20	400	200	TKS2391CT-ND	.75	.70	.35	840.00/3000	LL2012-FR27K
1.10	330.0	±10%	20	380	150	TKS2392CT-ND	.75	.70	.35	840.00/3000	LL2012-FR33K
1.10	390.0	±10%	20	330	150	TKS2393CT-ND	.75	.70	.35	840.00/3000	LL2012-FR39K
1.10	470.0	±10%	19	300	100	TKS2394CT-ND	.75	.70	.35	840.00/3000	LL2012-FR47K
PTL2012F											
0.50	1.0	±0.2nH	11	10000	1300	TKS2950CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N0C
0.50	1.2	±0.2nH	10	9000	1100	TKS2951CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N2C
0.50	1.5	±0.2nH	8	8500	800	TKS2952CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N5C
0.50	1.8	±0.2nH	9	8000	800	TKS2953CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N8C
0.50	2.2	±0.2nH	10	7000	750	TKS2954CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F2N2C
0.50	2.7	±0.2nH	10	6000	750	TKS2955CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F2N7C
0.50	3.3	±0.2nH	10	5300	650	TKS2956CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F3N3C
0.50	3.9	±0.2nH	10	4800	600	TKS2957CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F3N9C
0.50	4.7	±0.2nH	10	4350	550	TKS2958CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F4N7C
0.50	5.6	±0.2nH	10	4000	500	TKS2959CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F5N6C
0.50	6.8	±0.3nH	10	3600	450	TKS2960CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F6N8S
0.50	8.2	±0.3nH	10	3250	400	TKS2961CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F8N2S
0.50	10	3%	11	2850	350	TKS2962CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F10NT
0.50	12	3%	12	2500	350	TKS2963CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F12NT
0.50	15	3%	12	2250	300	TKS2964CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F15NT
0.50	18	3%	12	2000	300	TKS2965CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F18NT
0.50	22	3%	12	1800	250	TKS2966CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F22NT
0.50	27	3%	12	1650	200	TKS2967CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F27NT
0.50	33	3%	11	1450	200	TKS2968CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F33NT
0.50	39	3%	11	1350	180	TKS2969CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F39NT
0.50	47	3%	11	1180	130	TKS2970CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F47NT
0.50	56	3%	11	1070	120	TKS2971CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F56NT
0.50	68	3%	11	950	100	TKS2972CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F68NT
0.50	82	3%	11	900	90	TKS2973CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F82NT