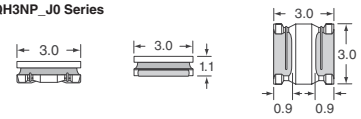
Chip Coils Wound Type SMD *(Cont.)*

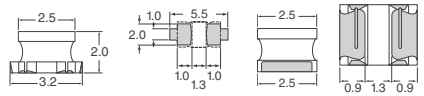
Dimensions in mm

LQH3NP_J0 Series



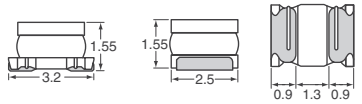
Features: • Large Rated Current: Based on Inductance Change: 1400mA at 1.0µH; Based on Temperature Rise: 2050mA at 1.0µH • Inductance Range: 1.0µH ~ 100µH • Magnetically shielded structure • Lead-free reflow soldering available
Applications: • DC-DC converter

LQH32C_23 Series



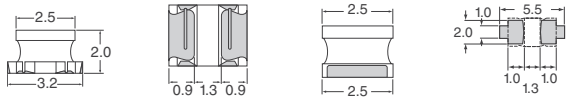
Consists of miniature chip coils with low DC resistance, high current capacity, and high impedance characteristics. Features are possible by the development of Murata's automatic winding techniques. Excellent for use as power supply line choke coils.

LQH32C_53 Series



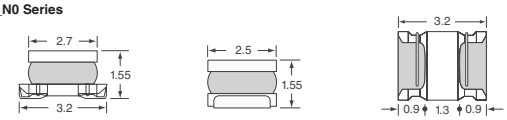
Consists of miniature chip coils with low DC resistance, high current capacity and high impedance characteristics. Excellent for use as choke coils in DC power supply circuits. High rated current and low profile with a maximum height of 1.7mm

LQH32M Series



Consists of miniature chip inductors wound on a special ferrite core. High Q value at high frequency and low DC resistance.

LQH32P_N0 Series



Features: • Large allowable DC current of 2550mA (0.47µH) • Inductance Range: 0.47µH ~ 22µH • Magnetically shielded structure • Lead-free reflow soldering available
Applications: • DSC, DVC and 3.5/2.5" HDD • DC-DC converter for communication module of WiMAX

Induc-tance	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (Ω)	SRF	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel◊ Qty.	Pricing	Murata Part No.
10µH	±20%	1	200	—	2.27 ±30%	60 MHz	490-4990-1-ND	.41	.35	.28	490-4990-2-ND	3,000	120.61/M	LQH2MCN100M52L
LQY33P Series — Case 1212														
2200nH	±20%	1	720	—	0.36 ±30%	270 MHz	490-4052-1-ND	.59	.50	.40	490-4052-2-ND	1,500	172.66/M	LQY33PN2R2M02L
LQH3N Series — Case 1212														
1.0µH	±30%	1	1525	—	0.08 ±20%	160 MHz	490-5117-1-ND	.43	.36	.29	490-5117-2-ND	1,500	123.92/M	LQH3NPN1R0NG0L
1.5µH	±30%	1	1470	—	0.10 ±20%	130 MHz	490-5118-1-ND	.43	.36	.29	490-5118-2-ND	1,500	123.92/M	LQH3NPN1R5NG0L
2.2µH	±30%	1	1270	—	0.14 ±20%	100 MHz	490-5119-1-ND	.43	.36	.29	490-5119-2-ND	1,500	123.92/M	LQH3NPN2R2NG0L
3.3µH	±30%	1	1130	—	0.18 ±20%	75 MHz	490-5120-1-ND	.43	.36	.29	490-5120-2-ND	1,500	123.92/M	LQH3NPN3R3NG0L
4.7µH	±30%	1	925	—	0.26 ±20%	60 MHz	490-5121-1-ND	.43	.36	.29	490-5121-2-ND	1,500	123.92/M	LQH3NPN4R7NG0L
6.8µH	±30%	1	710	—	0.45 ±20%	48 MHz	490-5122-1-ND	.43	.36	.29	490-5122-2-ND	1,500	123.92/M	LQH3NPN6R8NG0L
10µH	±30%	1	630	—	0.57 ±20%	45 MHz	490-5123-1-ND	.43	.36	.29	490-5123-2-ND	1,500	123.92/M	LQH3NPN100NG0L
15µH	±30%	1	475	—	0.91 ±20%	35 MHz	490-5124-1-ND	.43	.36	.29	490-5124-2-ND	1,500	123.92/M	LQH3NPN150NG0L
22µH	±30%	1	430	—	1.1 ±20%	25 MHz	490-5125-1-ND	.43	.36	.29	490-5125-2-ND	1,500	123.92/M	LQH3NPN220NG0L
33µH	±30%	1	345	—	2.1 ±20%	24 MHz	490-5126-1-ND	.43	.36	.29	490-5126-2-ND	1,500	123.92/M	LQH3NPN330NG0L
47µH	±30%	1	270	—	3.0 ±20%	19 MHz	490-5127-1-ND	.43	.36	.29	490-5127-2-ND	1,500	123.92/M	LQH3NPN470NG0L
68µH	±30%	1	235	—	4.2 ±20%	16 MHz	490-5128-1-ND	.43	.36	.29	490-5128-2-ND	1,500	123.92/M	LQH3NPN680NG0L
100µH	±30%	1	165	—	8.0 ±20%	10 MHz	490-5129-1-ND	.43	.36	.29	490-5129-2-ND	1,500	123.92/M	LQH3NPN101NG0L
150µH	±30%	1	145	—	11.0 ±20%	10 MHz	490-5130-1-ND	.43	.36	.29	490-5130-2-ND	1,500	123.92/M	LQH3NPN151NG0L
220µH	±30%	1	130	—	14.0 ±20%	8.5 MHz	490-5131-1-ND	.43	.36	.29	490-5131-2-ND	1,500	123.92/M	LQH3NPN221NG0L
250µH	±30%	1	130	—	15.0 ±20%	8.0 MHz	490-5132-1-ND	.43	.36	.29	490-5132-2-ND	1,500	123.92/M	LQH3NPN251NG0L
LQH3NP_J0 Series — Case 1212														
1.0µH	±30%	1	1620	—	.040 ±20%	140 MHz	490-5342-1-ND	.43	.36	.29	490-5342-2-ND	1,000	123.92	LQH3NPN1R0NJ0L
1.5µH	±30%	1	1500	—	.055 ±20%	90 MHz	490-5343-1-ND	.43	.36	.29	490-5343-2-ND	1,000	123.92	LQH3NPN1R5NJ0L
2.2µH	±30%	1	1460	—	.069 ±20%	90 MHz	490-5344-1-ND	.43	.36	.29	490-5344-2-ND	1,000	123.92	LQH3NPN2R2NJ0L
3.3µH	±30%	1	1270	—	.105 ±20%	70 MHz	490-5345-1-ND	.43	.36	.29	490-5345-2-ND	1,000	123.92	LQH3NPN3R3NJ0L
4.7µH	±30%	1	1120	—	.130 ±20%	65 MHz	490-5346-1-ND	.43	.36	.29	490-5346-2-ND	1,000	123.92	LQH3NPN4R7NJ0L
6.8µH	±30%	1	850	—	.210 ±20%	45 MHz	490-5347-1-ND	.43	.36	.29	490-5347-2-ND	1,000	123.92	LQH3NPN6R8NJ0L
10µH	±30%	1	710	—	.300 ±20%	35 MHz	490-5348-1-ND	.43	.36	.29	490-5348-2-ND	1,000	123.92	LQH3NPN100NJ0L
15µH	±30%	1	590	—	.440 ±20%	30 MHz	490-5349-1-ND	.43	.36	.29	490-5349-2-ND	1,000	123.92	LQH3NPN150NJ0L
22µH	±20%	1	510	—	.600 ±20%	25 MHz	490-5350-1-ND	.43	.36	.29	490-5350-2-ND	1,000	123.92	LQH3NPN220MJ0L
33µH	±20%	1	410	—	.900 ±20%	20 MHz	490-5351-1-ND	.43	.36	.29	490-5351-2-ND	1,000	123.92	LQH3NPN330MJ0L
47µH	±20%	1	350	—	1.3 ±20%	15 MHz	490-5352-1-ND	.43	.36	.29	490-5352-2-ND	1,000	123.92	LQH3NPN470MJ0L
LQH32C_23 Series — Case 1210														
1.0µH	±20%	1	800	—	0.09 ±30%	96 MHz	490-2493-1-ND	.32	.27	.22	490-2493-2-ND	2,000	93.39/M	LQH32CN1R0M23L
2.2µH	±20%	1	600	—	0.13 ±30%	64 MHz	490-2494-1-ND	.32	.27	.22	490-2494-2-ND	2,000	93.39/M	LQH32CN2R2M23L
4.7µH	±20%	1	450	—	0.2 ±30%	43 MHz	490-2495-1-ND	.32	.27	.22	490-2495-2-ND	2,000	93.39/M	LQH32CN4R7M23L
10µH	±10%	1	300	—	0.44 ±30%	26 MHz	490-2496-1-ND	.32	.27	.22	490-2496-2-ND	2,000	93.39/M	LQH32CN100K23L
47µH	±10%	1	170	—	1.3 ±30%	15 MHz	490-2497-1-ND	.32	.27	.22	490-2497-2-ND	2,000	93.39/M	LQH32CN470K23L
220µH	±10%	1	70	—	8.4 ±30%	6.8 MHz	490-4066-1-ND	.32	.27	.22	490-4066-2-ND	2,000	93.35/M	LQH32CN221K23L
330µH	±10%	1	60	—	10 ±30%	5.6 MHz	490-2498-1-ND	.32	.27	.22	490-2498-2-ND	2,000	93.39/M	LQH32CN331K23L
390µH	±10%	1	60	—	17 ±30%	5 MHz	490-4067-1-ND	.32	.27	.22	490-4067-2-ND	2,000	93.35/M	LQH32CN391K23L
470µH	±10%	1kHz	60	—	19 ±30%	5 MHz	490-2499-1-ND	.32	.27	.22	490-2499-2-ND	2,000	93.39/M	LQH32CN471K23L
560µH	±10%	1kHz	60	—	22 ±30%	5 MHz	490-4068-1-ND	.32	.27	.22	490-4068-2-ND	2,000	93.35/M	LQH32CN561K23L
LQH32C_53 Series — Case 1210														
1.0µH	±20%	1	1000	—	0.060 ±30%	100 MHz	490-4055-1-ND	.35	.30	.24	490-4055-2-ND	2,000	101.61/M	LQH32CN1R0M53L
2.2µH	±20%	1	790	—	0.097 ±30%	64 MHz	490-4056-1-ND	.35	.30	.24	490-4056-2-ND	2,000	101.61/M	LQH32CN2R2M53L
4.7µH	±20%	1	650	—	0.15 ±30%	43 MHz	490-4057-1-ND	.35	.30	.24	490-4057-2-ND	2,000	101.61/M	LQH32CN4R7M53L
6.8µH	±20%	1	540	—	0.25 ±30%	32 MHz	490-4058-1-ND	.35	.30	.24	490-4058-2-ND	2,000	101.61/M	LQH32CN6R8M53L
10µH	±10%	1	450	—	0.30 ±30%	26 MHz	490-4059-1-ND	.35	.30	.24	490-4059-2-ND	2,000	101.61/M	LQH32CN100K53L
15µH	±10%	1	300	—	0.58 ±30%	26 MHz	490-4060-1-ND	.35	.30	.24	490-4060-2-ND	2,000	101.61/M	LQH32CN150K53L
22µH	±10%	1	250	—	0.71 ±30%	19 MHz	490-4061-1-ND	.35	.30	.24	490-4061-2-ND	2,000	101.61/M	LQH32CN220K53L
33µH	±10%	1	200	—	1.1 ±30%	17 MHz	490-4062-1-ND	.35	.30	.24	490-4062-2-ND	2,000	101.61/M	LQH32CN330K53L
47µH	±10%	1	170	—	1.3 ±30%	15 MHz	490-4063-1-ND	.35	.30	.24	490-4063-2-ND	2,000	101.61/M	LQH32CN470K53L
68µH	±10%	1	130	—	2.2 ±30%	12 MHz	490-4064-1-ND	.35	.30	.24	490-4064-2-ND	2,000	101.61/M	LQH32CN680K53L
100µH	±10%	1	100	—	3.5 ±30%	10 MHz	490-4065-1-ND	.35	.30	.24	490-4065-2-ND	2,000	101.61/M	LQH32CN101K53L
LQH32M Series — Case 1210														
1.0µH	±20%	1	445	20	0.5 max.	100 MHz	490-2500-1-ND	.32	.27	.22	490-2500-2-ND	2,000	93.39/M	LQH32MN1R0M23L
2.2µH	±10%	1	370	20	0.8 max.	50 MHz	490-2501-1-ND	.32	.27	.22	490-2501-2-ND	2,000	93.39/M	LQH32MN2R2K23L
4.7µH	±10%	1	270	20	1.2 max.	31 MHz	490-2502-1-ND	.32	.27	.22	490-2502-2-ND	2,000	93.39/M	LQH32MN4R7K23L
6.8µH	±10%	1	240	20	1.5 max.	25 MHz	490-2503-1-ND	.32	.27	.22	490-2503-2-ND	2,000	93.39/M	LQH32MN6R8K23L
8.2µH	±10%	1	225	20	1.6 max.	23 MHz	490-2504-1-ND	.32	.27	.22	490-2504-2-ND	2,000	93.39/M	LQH32MN8R2K23L
10µH	±5%	1	190	35	1.8 max.	20 MHz	490-2505-1-ND	.32	.27	.22	490-2505-2-ND	2,000	93.39/M	LQH32MN100J23L
22µH	±5%	1	150	35	2.8 max.	14 MHz	490-2506-1-ND	.32	.27	.22	490-2506-2-ND	2,000	93.39/M	LQH32MN220J23L
33µH	±5%	1	115	40	3.5 max.	12 MHz	490-2507-1-ND	.32	.27	.22	490-2507-2-ND	2,000	93.39/M	LQH32MN330J23L
47µH	±5%	1	100	40	4.3 max.	11 MHz	490-2508-1-ND	.32	.27	.22	490-2508-2-ND	2,000	93.39/M	LQH32MN470J23L
150µH	±5%	1	70	40★	9.3 max.	7 MHz	490-2509-1-ND	.32	.27	.22	490-2509-2-ND	2,000	93.39/M	LQH32MN151J23L
270µH	±5%	1	65	40★	12.5 max.	5 MHz	490-2510-1-ND	.32	.27	.22	490-2510-2-ND	2,000	93.39/M	LQH32MN271J23L
330µH	±5%	1	65	40★	13.0 max.	5 MHz	490-2511-1-ND	.32	.27	.22	490-2511-2-ND	2,000	93.39/M	LQH32MN331J23L
390µH	±5%	1	50	50★	22.0 max.	5 MHz	490-2512-1-ND	.32	.27	.22	490-2512-2-ND	2,000	93.39/M	LQH32MN391J23L
560µH	±5%	1kHz	40	50★	28.0 max.	5 MHz	490-2513-1-ND	.32	.27	.22	490-2513-2-ND	2,000	93.39/M	LQH32MN561J23L
LQH32P_N0 Series — Case 1210														
0.47µH	±30%	1	2550	—	0.03 ±20%	100 MHz	490-5333-1-ND	.39	.33	.26	490-5333-2-ND	2,000	113.18/M	LQH32PNR47NN0L
1.0µH	±30%	1	2050	—	0.045 ±20%	100 MHz	490-5334-1-ND	.39	.33	.26	490-5334-2-ND	2,000	113.18/M	LQH32PN1R0NN0L

† Test Frequency at 250MHz § Test Frequency at 200MHz ▲ Test Frequency at 150MHz ‡ Test Frequency at 100MHz ★ Test Frequency at 796kHz
◊ For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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