

# Chip Inductors (Chip Coils)



# Product Guide

Series	Structure	Size Code in inch (in mm)	Inductance Range		Rated Current	
			Min.	Max.	Min.	Max.
DFE18SAN_E0	p10	0603 (1608)	240nH	1μH	2A	4.2A
DFE18SAN_GO	p10	0603 (1608)	240nH	1μH	2.1A	4.9A
DFE18SBN_E0	p11	0603 (1608)	470nH	1μH	1.9A	3.1A
DFE201208S	p12	0805 (2012)	470nH	2.2μH	1.8A	4A
DFE201210S	p13	0805 (2012)	470nH	2.2μH	2.1A	4.8A
DFE201210U	p13	0805 (2012)	240nH	2.2μH	2A	6.5A
DFE201610C	p14	0806 (2016)	560nH	2.2μH	1.5A	2.8A
DFE201610E	p15	0806 (2016)	240nH	10μH	1A	6.3A
DFE201610P	p16	0806 (2016)	240nH	2.2μH	2A	5.4A
DFE201610R	p16	0806 (2016)	470nH	2.2μH	1.6A	3A
DFE201612C	p17	0806 (2016)	470nH	2.2μH	1.6A	3.4A
DFE201612E	p18	0806 (2016)	240nH	4.7μH	1.8A	6.6A
DFE201612P	p19	0806 (2016)	240nH	2.2μH	2.1A	6.5A
DFE201612R	p19	0806 (2016)	470nH	2.2μH	1.7A	3.5A
DFE252007F	p20	1008 (2520)	470nH	4.7μH	1.2A	3.3A
DFE252008C	p21	1008 (2520)	470nH	4.7μH	1.1A	3A
DFE252008U	p22	1008 (2520)	470nH	10μH	1A	4.5A
DFE252010C	p22	1008 (2520)	470nH	10μH	1A	3.5A
DFE252010F	p23	1008 (2520)	330nH	10μH	1.3A	6.8A
DFE252010P	p24	1008 (2520)	330nH	4.7μH	1.7A	5.7A
DFE252010R	p25	1008 (2520)	1μH	4.7μH	1.4A	3A
DFE252012C	p26	1008 (2520)	470nH	10μH	1A	3.8A
DFE252012F	p26	1008 (2520)	330nH	10μH	1.4A	7.6A
DFE252012P	p27	1008 (2520)	330nH	4.7μH	2A	6.6A
DFE252012R	p28	1008 (2520)	1μH	4.7μH	1.7A	3.4A
DFE322510C	p29	1210 (3225)	470nH	10μH	1A	3.8A
DFE322512C	p30	1210 (3225)	470nH	10μH	1.2A	4.7A
DFE322512F	p30	1210 (3225)	470nH	10μH	1.7A	6.7A
FDSD0412	p31	1515 (4040)	330nH	4.7μH	2.5A	7.5A
FDSD0415	p32	1515 (4040)	220nH	4.7μH	2.9A	12A
FDSD0420	p33	1515 (4040)	330nH	10μH	2.5A	11A
FDSD0420W	p34	1515 (4040)	15μH	22μH	1.5A	1.9A
FDSD0512	p34	2019 (5249)	1μH	6.8μH	2.3A	6.1A
FDSD0515	p35	2019 (5249)	1μH	4.7μH	3.2A	7A
FDSD0518	p36	2019 (5249)	680nH	10μH	2.7A	9A
FDV0530S	p37	2020 (5050)	120nH	2.2μH	4.5A	18A
FDV0530	p37	2423 (6258)	110nH	4.7μH	3.6A	19.6A
FCUL0530	p38	2522 (6357)	360nH	470nH	16A	18A
FDSD0630	p39	2726 (7066)	680nH	10μH	5.4A	17A
FCUL0624	p40	2926 (7366)	220nH	470nH	17A	24A
FCUL0630	p40	2926 (7366)	120nH	680nH	15A	32A
FDV0618	p41	2926 (7467)	240nH	3.3μH	4.1A	14A
FDV0620	p42	2926 (7467)	200nH	4.7μH	3.5A	16.2A
FDVE0630	p43	2926 (7467)	160nH	10μH	3.1A	20.7A
FDVE0640	p44	2926 (7467)	1.5μH	4.7μH	5A	8.2A
FDUE0630	p44	3026 (7667)	120nH	240nH	27A	36A
FDUE0640	p45	3026 (7667)	150nH	420nH	22A	33A
FDUE0650	p46	3026 (7667)	600nH	1μH	16A	18A
FDA1055	p46	4242 (108108)	560nH	5.6μH	8A	27.7A
FDUE1040D	p47	4440 (112100)	220nH	1μH	18A	32A
FDVE1040	p48	4440 (112100)	1.5μH	10μH	6.1A	14.6A
FCUL1040	p49	4540 (115100)	180nH	420nH	34A	53A
FCUL1060	p49	4640 (116100)	360nH	560nH	34A	41A
FDUE1245	p50	4848 (123121)	500nH	2.2μH	17A	30A

Inductors for Power Lines

Wire Wound  
 Metal Alloy  
 Core Type

Continued on the following page. ↗

Series	Structure	Size Code in inch (in mm)	Inductance Range		Rated Current	
			Min.	Max.	Min.	Max.
FDA1254	Wire Wound Metal Alloy Core Type	5049 (126125)	680nH	8μH	9.1A	29.1A
FDUE1260		5650 (143127)	450nH	450nH	34A	34A
LQW15DN_00	Wire Wound Ferrite Core Type	0402 (1005)	10μH	15μH	100mA	120mA
LQH2MCN_02		0806 (2016)	1μH	82μH	90mA	485mA
LQH2MCN_52		0806 (2016)	1μH	22μH	130mA	595mA
LQH2MPN_GR		0806 (2016)	330nH	82μH	210mA	2.2A
LQH2HPN_DR		1008 (2520)	470nH	22μH	270mA	1.67A
LQH2HPN_GR		1008 (2520)	470nH	100μH	210mA	2.9A
LQH2HPN_JR		1008 (2520)	470nH	22μH	540mA	3.5A
LQH31CN_03		1206 (3216)	120nH	100μH	80mA	970mA
LQH32CN_23		1210 (3225)	1μH	560μH	60mA	800mA
LQH32CN_33		1210 (3225)	150nH	10μH	450mA	1.45A
LQH32CN_53		1210 (3225)	1μH	100μH	100mA	1A
LQH32DN_23		1210 (3225)	1μH	560μH	60mA	800mA
LQH32DN_53		1210 (3225)	1μH	100μH	100mA	1A
LQH32PB_NO		1210 (3225)	470nH	120μH	200mA	3.4A
LQH32PB_NC		1210 (3225)	470nH	22μH	650mA	4.4A
LQH32PN_NO		1210 (3225)	470nH	120μH	200mA	3.4A
LQH32PN_NC		1210 (3225)	470nH	22μH	650mA	4.4A
DEM2812C		1211 (3028)	470nH	12μH	760mA	3.1A
DEM2815C		1211 (3028)	470nH	15μH	800mA	3.9A
DEM2818C		1211 (3028)	470nH	12μH	1A	4.7A
LQH3NPN_GR		1212 (3030)	470nH	250μH	140mA	2.82A
LQH3NPN_JR		1212 (3030)	680nH	47μH	570mA	2.86A
LQH3NPN_ME		1212 (3030)	1μH	100μH	430mA	3A
DEM3512C		1514 (3735)	680nH	22μH	530mA	2.5A
DEM3518C		1514 (3735)	560nH	22μH	880mA	3.4A
LQH44PN_GR		1515 (4040)	680nH	47μH	410mA	2.5A
LQH44PN_JO		1515 (4040)	1μH	47μH	380mA	2A
LQH44PN_PO		1515 (4040)	1μH	22μH	800mA	2.95A
LQH43CN_03		1812 (4532)	1μH	470μH	90mA	1.08A
LQH43CN_33		1812 (4532)	560nH	3.9μH	1.6A	2.95A
LQH43PB_26		1812 (4532)	1μH	220μH	240mA	3.4A
LQH43PN_26		1812 (4532)	1μH	220μH	240mA	3.4A
DEM4518C	1818 (4745)	1.2μH	22μH	1A	3.5A	
LQH5BPB_TO	2020 (5050)	470nH	22μH	1.4A	7.7A	
LQH5BPN_38	2020 (5050)	1μH	150μH	650mA	7A	
LQH5BPN_TO	2020 (5050)	470nH	22μH	1.4A	7.7A	
D52LC	2020 (5252)	1.2μH	100μH	260mA	2.44A	
D53LC High Current	2020 (5252)	1.1μH	100μH	440mA	3.87A	
D53LC Low Rdc	2020 (5252)	4.7μH	220μH	330mA	2.18A	
LQH55DN_03	2220 (5750)	120nH	10mH	50mA	6A	
D63LCB	2424 (6060)	1μH	150μH	440mA	4.52A	
DG6028C	2424 (6060)	1μH	22μH	1.7A	5.8A	
DG6045C	2424 (6060)	1μH	100μH	900mA	9.5A	
DG6050C	2424 (6060)	1.2μH	100μH	1.2A	9.8A	
LQH66SN_03	2525 (6363)	270nH	10mH	50mA	6A	
DS75LC	2929 (7373)	1μH	470μH	430mA	9.2A	
DEM8030C	3131 (8080)	1.5μH	47μH	1.3A	7.5A	
DEM8040C	3131 (8080)	1.5μH	33μH	2.4A	10A	
DEM8045C	3131 (8080)	1.5μH	47μH	2.1A	11.2A	
DG8040C	3131 (8080)	1μH	100μH	1.3A	10.4A	
DEM10050C	3939 (100100)	1.5μH	33μH	3.5A	15.3A	
DEM10050C_DD	3939 (100100)	1.5μH	33μH	3.5A	15.3A	

Continued on the following page. ↗

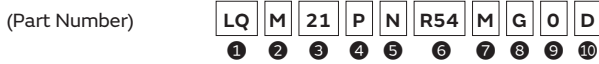
	Series	Structure	Size Code in inch (in mm)	Inductance Range		Rated Current	
				Min.	Max.	Min.	Max.
Inductors for Power Lines	DS104C2	Wire Wound Ferrite Core Type	4040 (101101)	1.1μH	120μH	970mA	11.7A
	DS106C2		4040 (101101)	1.2μH	330μH	690mA	12A
	DS126C2		4949 (125125)	1.7μH	680μH	580mA	11.8A
	LQM18FN_00	Multilayer Type	0603 (1608)	1μH	10μH	50mA	150mA
	LQM18PN_B0		0603 (1608)	1.5μH	1.5μH	600mA	600mA
	LQM18PN_C0		0603 (1608)	470nH	2.2μH	700mA	850mA
	LQM18PN_D0		0603 (1608)	2.5μH	2.5μH	700mA	700mA
	LQM18PN_DH		0603 (1608)	2.2μH	2.2μH	650mA	650mA
	LQM18PN_F0		0603 (1608)	1μH	1μH	600mA	600mA
	LQM18PN_FH		0603 (1608)	470nH	2.2μH	700mA	1.4A
	LQM18PN_FR		0603 (1608)	220nH	4.7μH	620mA	1.25A
	LQM18PN_GH		0603 (1608)	1μH	3.3μH	1.05A	1.05A
	LQM18PW_CH		0603 (1608)	1μH	2.5μH	750mA	950mA
	LQM21DN_00		0805 (2012)	1μH	47μH	7mA	60mA
	LQM21FN_00		0805 (2012)	1μH	47μH	7mA	220mA
	LQM21FN_70		0805 (2012)	4.7μH	10μH	100mA	120mA
	LQM21FN_80		0805 (2012)	4.7μH	10μH	100mA	120mA
	LQM21PN_C0		0805 (2012)	470nH	2.2μH	600mA	1.1A
	LQM21PN_CA		0805 (2012)	2.2μH	2.2μH	1.05A	1.05A
	LQM21PN_CH		0805 (2012)	470nH	2.2μH	1.05A	1.6A
	LQM21PN_EH		0805 (2012)	240nH	2.2μH	1.1A	2.8A
	LQM21PN_G0		0805 (2012)	470nH	3.3μH	800mA	1.3A
	LQM21PN_GC		0805 (2012)	1μH	2.2μH	800mA	900mA
	LQM21PN_GH		0805 (2012)	470nH	4.7μH	1A	2.4A
	LQM21PN_GR		0805 (2012)	1μH	4.7μH	800mA	1.3A
	LQM21PN_GS		0805 (2012)	2.2μH	4.7μH	750mA	950mA
	LQM2MPN_DH		0806 (2016)	2.2μH	2.2μH	1.27A	1.27A
	LQM2MPN_EH		0806 (2016)	240nH	2.2μH	1.1A	4.1A
	LQM2MPN_G0		0806 (2016)	470nH	4.7μH	1.1A	1.6A
	LQM2MPN_GH		0806 (2016)	160nH	2.2μH	1.3A	5A
	LQM2HPN_CH		1008 (2520)	240nH	2.2μH	850mA	2.55A
	LQM2HPN_E0		1008 (2520)	560nH	560nH	1.5A	1.5A
	LQM2HPN_EH		1008 (2520)	240nH	2.2μH	1.3A	4.5A
	LQM2HPN_G0	1008 (2520)	470nH	4.7μH	1.1A	1.8A	
	LQM2HPN_GC	1008 (2520)	1μH	4.7μH	800mA	1.5A	
LQM2HPN_GH	1008 (2520)	240nH	2.2μH	1.5A	5A		
LQM2HPN_GS	1008 (2520)	2.2μH	4.7μH	1A	1.1A		
LQM2HPN_J0	1008 (2520)	1μH	3.3μH	1A	1.5A		
LQM2HPN_JH	1008 (2520)	470nH	2.2μH	1.5A	3.2A		
LQM31PN_00	1206 (3216)	470nH	4.7μH	700mA	1.4A		
LQM32PN_G0	1210 (3225)	1μH	1μH	1.8A	1.8A		
LQM32PN_GC	1210 (3225)	1μH	1μH	2.2A	2.2A		
RF Inductors	LQG15HN_02	Multilayer Type	0402 (1005)	1nH	120nH	150mA	1A
	LQG15HS_02		0402 (1005)	1nH	270nH	110mA	1A
	LQG18HN_00	Film Type	0603 (1608)	1.2nH	100nH	350mA	1.1A
	LQP02HQ_02		01005 (0402)	0.2nH	56nH	100mA	1A
	LQP02TN_02		01005 (0402)	0.2nH	39nH	90mA	320mA
	LQP02TQ_02		01005 (0402)	0.2nH	22nH	120mA	990mA
	LQP03HQ_02		0201 (0603)	0.6nH	150nH	80mA	1.1A
	LQP03PN_02		0201 (0603)	2.2nH	4.7nH	900mA	1.4A
	LQP03TG_02		0201 (0603)	0.1nH	120nH	80mA	850mA
	LQP03TN_02		0201 (0603)	0.6nH	270nH	60mA	850mA
	LQP03TQ_02		0201 (0603)	0.6nH	110nH	70mA	1A
	LQP15MN_02		0402 (1005)	1nH	33nH	60mA	400mA

Continued on the following page. ↗

	Series	Structure	Size Code in inch (in mm)	Inductance Range		Rated Current		
				Min.	Max.	Min.	Max.	
RF Inductors	LQP18MN_02	p215	Film Type	0603 (1608)	1.3nH	100nH	50mA	300mA
	LQW03AW_00	p216	Wire Wound Non-Magnetic Core Type	0201 (0603)	1nH	15.5nH	230mA	900mA
	LQW04AN_00	p218		03015 (0804)	0.8nH	33nH	140mA	1.8A
	LQW04AN_10	p222		03015 (0804)	36nH	56nH	180mA	200mA
	LQW15AN_00	p223		0402 (1005)	1.5nH	120nH	110mA	1A
	LQW15AN_10	p228		0402 (1005)	1.3nH	8.4nH	640mA	1.2A
	LQW15AN_80	p230		0402 (1005)	1.3nH	75nH	320mA	3.15A
	LQW15AW_80	p236		0402 (1005)	51nH	220nH	220mA	480mA
	LQW18AN_00	p237		0603 (1608)	2.2nH	470nH	75mA	850mA
	LQW18AN_10	p240		0603 (1608)	2.2nH	33nH	550mA	1.4A
	LQW18AN_80	p241		0603 (1608)	2.2nH	390nH	190mA	3.2A
	LQW18AS_00	p245		0603 (1608)	1.6nH	390nH	100mA	700mA
	LQW18AS_0C	p247		0603 (1608)	4.3nH	390nH	100mA	700mA
	LQW2BAN_00	p248		0805 (2015)	3.2nH	200nH	750mA	3.8A
	LQW2BAS_00	p250		0805 (2015)	2.7nH	1μH	170mA	910mA
	LQW2BHN_03	p252		0805 (2015)	3.3nH	470nH	160mA	1.32A
	LQW2BHN_13	p254		0805 (2015)	2.7nH	27nH	900mA	1.9A
	LQW2UAS_00	p254		1008 (2520)	12nH	4.7μH	260mA	1A
	LQW31HN_03	p257		1206 (3216)	8.8nH	100nH	230mA	750mA
	Inductors for General Circuits	LQW15CN_00	p258	Wire Wound Ferrite Core Type	0402 (1005)	18nH	200nH	390mA
LQW15CN_10		p258	0402 (1005)		20nH	3.3μH	130mA	2.2A
LQW18CN_00		p260	0603 (1608)		4.9nH	650nH	430mA	2.6A
LQW21HN_00		p261	0805 (2012)		470nH	2.2μH	75mA	160mA
LQH31HN_03		p261	1206 (3216)		54nH	880nH	180mA	920mA
Inductors for General Circuits	LQW04CA_00	p155	Wire Wound Ferrite Core Type	03019 (0805)	60nH	510nH	200mA	620mA
	LQW15CA_00	p155		0402 (1005)	22nH	2μH	130mA	1.3A
	LQW18CA_00	p157		0603 (1608)	32nH	580nH	450mA	2.2A
	LQH31MN_03	p158		1206 (3216)	150nH	100μH	45mA	250mA
	LQH32MN_23	p160		1210 (3225)	1μH	560μH	40mA	445mA
	LQH44NN_03	p162		1515 (4040)	510nH	470μH	145mA	4.5A
	LQH43MN_03	p163		1812 (4532)	1μH	1.5mH	40mA	500mA
	LQH43NN_03	p165		1812 (4532)	1μH	2.4mH	25mA	500mA
	LQB15NN_10	p167	Multilayer Type	0402 (1005)	220nH	560nH	300mA	380mA
	LQB18NN_10	p168		0603 (1608)	220nH	560nH	300mA	450mA
LQM18JN_00	p169	0603 (1608)		100nH	160nH	550mA	650mA	
LQM18NN_00	p169	0603 (1608)		47nH	2.2μH	15mA	50mA	
LQM21NN_10	p170	0805 (2012)	100nH	4.7μH	30mA	250mA		

## ● Part Numbering

### Inductors for Power Lines



#### ① Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

#### ② Structure

Code	Structure
H	Wire Wound Type (Ferrite Core)
M	Multilayer Type (Ferrite Core)
W	Wire Wound Type (Ferrite Core)

#### ③ Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
2M	2.0x1.6mm	0806
2H	2.5x2.0mm	1008
3N	3.0x3.0mm	1212
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
43	4.5x3.2mm	1812
44	4.0x4.0mm	1515
5B	5.0x5.0mm	2020
55	5.7x5.0mm	2220
66	6.3x6.3mm	2525

#### ④ Applications and Characteristics

Code	Series	Applications and Characteristics
D	LQM	for Choke (Low-current DC Power Supplies)
F		for Choke (DC Power Supplies)
D	LQH	for Choke
S		for Choke (Magnetically Shielded Type)
C		for Choke (Coating Type)
P	LQM/LQH	for Power Line
D	LQW	

#### ⑤ Category

Code	Category
N	Standard Type
B	Special Feature Classification
W	

#### ⑥ Inductance

Expressed by three-digit alphanumeric. The unit is micro-henry ( $\mu\text{H}$ ). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than  $0.1\mu\text{H}$ , the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

#### ⑦ Inductance Tolerance

Code	Inductance Tolerance
K	$\pm 10\%$
M	$\pm 20\%$
N	$\pm 30\%$

#### ⑧ Features (Except for LQH□□P/LQM□□P)

Code	Features	Series
0	Standard Type	LQM/LQH/LQW
2	Standard Type	LQH32C/32D
3	Low DC Resistance	LQH32C/43CN
5	Low Profile Type	LQH2MC/32C/32D
7	Large Current Type	LQM21F
8	Low DC Resistance /Large Current Type	

#### ⑨ Thickness

(LQH□□P/LQM□□P Only • Except for LQH43P/LQH5BPN\_38)

Code	Nominal Dimensions (T)
B	0.35mm
C	0.5mm
D	0.6mm
E	0.7mm
F	0.8mm
O	0.85mm
G	0.9mm
J	1.1mm
M	1.4mm
N	1.55mm
P	1.65mm
T	2.0mm

Continued on the following page. ↗

Continued from the preceding page. ↘

⑨ Electrode (Except for LQH□□P/LQM□□P)

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQM/LQW
2		LQH2MC
3	LF Solder	LQH (Except for LQH2MC)

⑩ Specification

(LQH□□P/LQM□□P Only • Except for LQH43P/LQH5BPN\_38)

Code	Specification
0/S	Standard Type
C	Good Bias Current Characteristics Type
H/A/E	High Spec Type (Low DC Resistance; Good Bias Current Characteristics Type)
R	Low DC Resistance Type

⑪ Thickness (LQH43P/LQH5BPN\_38 Only)

Code	Dimensions (T)
26	2.6mm
38	4.0mm max.

⑫ Packaging

Code	Packaging
K	Embossed Taping (ø330mm Reel)
F	
L	Embossed Taping (ø180mm Reel)
E	
B	Bulk
J	Paper Taping (ø330mm Reel)
D	Paper Taping (ø180mm Reel)