

## LQF SERIES

### FEATURES

- 1 Low profile construction and miniature size
- 2 Magnetic shielded construction
- 3 High current saturation

### APPLICATIONS

For small DC/Dv converter.  
(cellular phone, HDD, DVC, DSC, PDA, LCD display etc.)



### 特徵

- 1 低調結構和小尺寸。
- 2 磁保護結構。
- 3 高電流飽和。

### 應用

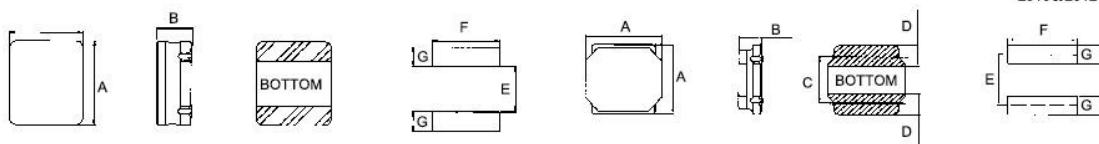
可用于手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的DC/DC轉換器。

### ORDERING CODE (標志示例)

LQF	2410	2R2	M
(1)	(2)	(3)	(4)

- |                          |       |
|--------------------------|-------|
| (1) Type                 | 類型    |
| (2) Dimensions           | 尺寸    |
| (3) Inductance           | 電感量   |
| (4) Inductance tolerance | 電感量公差 |
- M:±20% N:±30%

### SHAPES AND DIMENSIONS (形狀尺寸)



unit.mm

Type	A	B	C	D	E	F	G
LQF2410	2.4±0.1	1.0max	1.45±0.2	0.6±0.2	1.45	2.0	0.7
LQF2510	2.5±0.2	1.0max				2.1	0.85
LQF2512	2.5±0.2	1.2max				2.1	0.85
LQF3010	3.0±0.1	1.0max	1.9±0.2	0.9±0.2	2.2	2.7	0.8
LQF3012	3.0±0.1	1.2max	1.9±0.2	0.9±0.2	2.2	2.7	0.8
LQF3015	3.0±0.1	1.5max	1.9±0.2	0.9±0.2	2.2	2.7	0.8
LQF4010	4.0±0.2	1.0max	2.5±0.2	1.1±0.2	2.8	3.7	1.2
LQF4012	4.0±0.2	1.2max	2.5±0.2	1.1±0.2	2.8	3.7	1.2
LQF4018	4.0±0.2	1.8max	2.5±0.2	1.1±0.2	2.8	3.7	1.2
LQF5010	5.0±0.2	1.0max	3.5±0.2	1.5±0.2	3.8	4.7	1.6
LQF5020	5.0±0.2	2.0max	3.5±0.2	1.5±0.2	3.8	4.7	1.6
LQF5040	5.0±0.2	4.1max	3.5±0.2	1.5±0.2	3.8	4.7	1.6
LQF6010	6.0±0.2	1.0±0.1	4.0±0.2	1.35±0.2	4.7	5.7	1.6
LQF6012	6.0±0.2	1.2max	4.0±0.2	1.35±0.2	4.7	5.7	1.6
LQF6020	6.0±0.2	2.0max	4.0±0.2	1.35±0.2	4.7	5.7	1.6
LQF6028	6.0±0.2	2.8max	4.0±0.2	1.35±0.2	4.7	5.7	1.6
LQF6045	6.0±0.2	4.5max	4.0±0.2	1.35±0.2	4.7	5.7	1.6
LQF7025	7.0±0.2	2.5max	5.2±0.2	1.75±0.2	5.2	7.8	2.6
LQF8040	8.0±0.2	4.2max	5.6±0.3	1.6±0.3	5.6	7.8	1.8



## LQF2410 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±30% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF2410-2R2 □	2.2	N	1.290	0.970	0.150
LQF2410-3R3 □	3.3	N	1.000	0.770	0.220
LQF2410-4R7 □	4.7	N	0.880	0.670	0.290
LQF2410-6R8 □	6.8	N	0.750	0.570	0.410
LQF2410-100 □	10	M	0.550	0.450	0.690
LQF2410-150 □	15	M	0.470	0.370	1.020
LQF2410-220 □	22	M	0.390	0.300	1.470

## LQF2510 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±30% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF2510-R47 □	0.47	N	2.50	2.650	0.038
LQF2510-R68 □	0.68	N	2.05	2.200	0.052
LQF2510-1R0 □	1.0	N	1.75	1.900	0.070
LQF2510-1R5 □	1.5	N	1.45	1.500	0.107
LQF2510-2R2 □	2.2	N	1.20	1.200	0.158
LQF2510-3R3 □	3.3	N	0.94	1.000	0.229
LQF2510-4R7 □	4.7	M	0.80	0.820	0.332
LQF2510-6R8 □	6.8	M	0.68	0.710	0.443
LQF2510-100 □	10	M	0.56	0.550	0.712

## LQF2512 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±30% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF2512-R47 □	0.47	N	2.75	2.700	0.047
LQF2512-1R0 □	1.0	N	2.20	2.150	0.073
LQF2512-1R5 □	1.5	N	1.80	1.650	0.105
LQF2512-2R2 □	2.2	N	1.55	1.550	0.129
LQF2512-3R3 □	3.3	N	1.25	1.150	0.227
LQF2512-4R7 □	4.7	M	1.05	1.080	0.338
LQF2512-6R8 □	6.8	M	0.85	0.780	0.510
LQF2512-100 □	10	M	0.73	0.720	0.630

□ Tolerance: M=±20%, N=±30%



## LQF3010 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF3010-1R0 □	1.0	N	1.300	1.400	0.065
LQF3010-1R5 □	1.5	N	1.200	1.300	0.080
LQF3010-2R2 □	2.2	N	1.100	1.100	0.095
LQF3010-3R3 □	3.3	N	0.870	0.940	0.140
LQF3010-4R7 □	4.7	N	0.750	0.780	0.190
LQF3010-6R8 □	6.8	N	0.610	0.630	0.300
LQF3010-100 □	10	M	0.500	0.510	0.450
LQF3010-150 □	15	M	0.400	0.400	0.740
LQF3010-220 □	22	M	0.350	0.350	1.030
LQF3010-330 □	33	M	0.260	0.275	1.550
LQF3010-470 □	47	M	0.220	0.235	2.050

## LQF3012 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF3012-1R0 □	1.0	N	1.500	1.490	0.050
LQF3012-1R5 □	1.5	N	1.360	1.400	0.060
LQF3012-2R2 □	2.2	N	1.100	1.200	0.080
LQF3012-3R3 □	3.3	N	0.910	1.050	0.100
LQF3012-4R7 □	4.7	N	0.770	0.980	0.130
LQF3012-6R8 □	6.8	N	0.670	0.740	0.190
LQF3012-100 □	10	M	0.540	0.630	0.290
LQF3012-150 □	15	M	0.440	0.485	0.450
LQF3012-220 □	22	M	0.375	0.420	0.630
LQF3012-330 □	33	M	0.310	0.330	1.030
LQF3012-470 □	47	M	0.250	0.280	1.450

## LQF3015 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF3015-1R0 □	1.0	N	2.100	2.100	0.030
LQF3015-1R5 □	1.5	N	1.800	1.820	0.040
LQF3015-2R2 □	2.2	N	1.480	1.500	0.060
LQF3015-3R3 □	3.3	N	1.210	1.230	0.080
LQF3015-4R7 □	4.7	N	1.020	1.040	0.120
LQF3015-6R8 □	6.8	N	0.870	0.880	0.160
LQF3015-100 □	10	M	0.700	0.710	0.230
LQF3015-150 □	15	M	0.560	0.560	0.360
LQF3015-220 □	22	M	0.470	0.470	0.520
LQF3015-330 □	33	M	0.390	0.370	0.840
LQF3015-470 □	47	M	0.320	0.300	1.340

□ Tolerance:M: ±20%, N: ±30%





## LQF4010 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF4010-1R0 □	1.0	N	1.800	1.050	0.100
LQF4010-2R2 □	2.2	N	1.150	0.890	0.150
LQF4010-3R3 □	3.3	N	1.100	0.820	0.180
LQF4010-4R7 □	4.7	N	0.900	0.750	0.210
LQF4010-6R8 □	6.8	N	0.740	0.620	0.300
LQF4010-100 □	10	M	0.560	0.600	0.380
LQF4010-150 □	15	M	0.470	0.510	0.510
LQF4010-220 □	22	M	0.360	0.400	0.870
LQF4010-330 □	33	M	0.280	0.300	1.540
LQF4010-470 □	47	M	0.240	0.280	1.810

## LQF4012 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF4012-1R0 □	1.0	N	2.500	1.500	0.060
LQF4012-2R2 □	2.2	N	1.650	1.200	0.090
LQF4012-3R3 □	3.3	N	1.200	0.980	0.130
LQF4012-4R7 □	4.7	N	1.050	0.960	0.140
LQF4012-6R8 □	6.8	N	0.900	0.840	0.180
LQF4012-100 □	10	M	0.740	0.770	0.240
LQF4012-150 □	15	M	0.560	0.600	0.400
LQF4012-220 □	22	M	0.510	0.540	0.480
LQF4012-330 □	33	M	0.400	0.420	0.810
LQF4012-470 □	47	M	0.350	0.370	1.000

## LQF4018 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF4018-1R0 □	1.0	N	4.000	1.830	0.030
LQF4018-2R2 □	2.2	N	2.700	1.440	0.060
LQF4018-3R3 □	3.3	N	2.000	1.230	0.070
LQF4018-4R7 □	4.7	N	1.700	1.200	0.090
LQF4018-6R8 □	6.8	N	1.450	1.060	0.110
LQF4018-100 □	10	M	1.200	0.840	0.180
LQF4018-150 □	15	M	0.940	0.650	0.250
LQF4018-220 □	22	M	0.800	0.590	0.360
LQF4018-330 □	33	M	0.650	0.490	0.530
LQF4018-470 □	47	M	0.570	0.420	0.650
LQF4018-680 □	68	M	0.470	0.320	1.000
LQF4018-101 □	100	M	0.400	0.270	1.500
LQF4018-151 □	150	M	0.310	0.220	2.500
LQF4018-221 □	220	M	0.270	0.170	4.000

□ Tolerance:M: ±20%, N: ±30%



## LQF5010 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)(MAX) 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF5010-100 □	10	M	1.000	0.940	0.480

## LQF5020 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF5020-1R5 □	1.5	N	3.350	3.200	0.026
LQF5020-2R2 □	2.2	N	2.900	2.900	0.035
LQF5020-3R0 □	3.3	N	2.400	2.400	0.048
LQF5020-4R7 □	4.7	N	2.000	2.000	0.060
LQF5020-6R0 □	6.8	N	1.600	1.650	0.090
LQF5020-100 □	10	M	1.300	1.450	0.120
LQF5020-150 □	15	M	1.100	1.200	0.165
LQF5020-220 □	22	M	0.900	1.000	0.260

## LQF5040 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF5040-1R5 □	1.5	N	6.000	3.600	0.020
LQF5040-2R2 □	2.2	N	4.600	3.500	0.022
LQF5040-3R3 □	3.3	N	3.800	3.300	0.027
LQF5040-4R7 □	4.7	N	3.300	3.100	0.029
LQF5040-6R8 □	6.8	N	2.600	2.300	0.049
LQF5040-100 □	10	M	2.300	2.100	0.056
LQF5040-150 □	15	M	2.000	1.800	0.080
LQF5040-220 □	22	M	1.600	1.400	0.126
LQF5040-330 □	33	M	1.300	1.200	0.180
LQF5040-470 □	47	M	1.100	0.900	0.310

## LQF6010 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF6010-4R7 □	4.7	N	1.400	1.400	0.290
LQF6010-6R8 □	6.8	N	1.200	1.000	0.372
LQF6010-100 □	10	M	1.000	0.850	0.500

□ Tolerance:M: ±20%, N:±30%



## LQF6012 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF6012-2R5 □	2.5	N	2.100	1.730	0.090
LQF6012-4R0 □	4.0	N	1.800	1.570	0.105
LQF6012-5R3 □	5.3	N	1.500	1.400	0.110
LQF6012-6R8 □	6.8	N	1.300	1.180	0.165
LQF6012-100 □	10	M	1.000	1.000	0.235
LQF6012-150 □	15	M	0.800	0.790	0.330
LQF6012-220 □	22	M	0.760	0.630	0.530
LQF6012-330 □	33	M	0.590	0.530	0.700
LQF6012-470 □	47	M	0.520	0.460	1.050
LQF6012-680 □	68	M	0.440	0.410	1.350
LQF6012-101 □	100	M	0.350	0.320	2.180

## LQF6020 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF6020-0R8 □	0.8	N	5.500	3.800	0.020
LQF6020-1R5 □	1.5	N	4.000	3.200	0.026
LQF6020-2R2 □	2.2	N	3.200	2.700	0.034
LQF6020-3R3 □	3.3	N	2.800	2.600	0.040
LQF6020-4R7 □	4.7	N	2.400	2.000	0.058
LQF6020-6R8 □	6.8	N	2.000	1.800	0.085
LQF6020-100 □	10	M	1.700	1.400	0.125
LQF6020-150 □	15	M	1.500	1.500	0.195
LQF6020-220 □	22	M	1.050	0.950	0.290
LQF6020-330 □	33	M	0.900	0.900	0.545
LQF6020-470 □	47	M	0.750	0.750	0.670

## LQF6028 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±30% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF6028-1R5 □	1.5	N	5.000	4.200	0.016
LQF6028-2R2 □	2.2	N	4.200	3.700	0.020
LQF6028-3R0 □	3.3	N	3.600	3.400	0.023
LQF6028-4R7 □	4.7	N	2.700	3.000	0.031
LQF6028-6R0 □	6.8	N	2.500	2.500	0.040
LQF6028-100 □	10	M	1.900	1.900	0.065
LQF6028-150 □	15	M	1.600	1.800	0.095
LQF6028-220 □	22	M	13.00	1.400	0.135
LQF6028-330 □	33	M	1.100	1.100	0.220
LQF6028-470 □	47	M	0.950	0.920	0.300
LQF6028-680 □	68	M	0.760	0.770	0.420
LQF6028-101 □	100	M	0.620	0.660	0.600

□ Tolerance: M: ±20%, N: ±30%





## LQF6045 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±30% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF6045-1R3 □	1.3	N	8.000	4.000	0.016
LQF6045-1R8 □	1.8	N	7.000	3.700	0.018
LQF6045-2R3 □	2.3	N	6.000	3.500	0.021
LQF6045-3R0 □	3.0	N	5.000	3.200	0.024
LQF6045-4R5 □	4.5	N	4.000	3.000	0.031
LQF6045-6R3 □	6.3	N	3.800	2.800	0.038
LQF6045-100 □	10	M	3.000	2.500	0.047
LQF6045-150 □	15	M	2.300	1.900	0.077
LQF6045-220 □	22	M	1.900	1.500	0.115
LQF6045-330 □	33	M	1.500	1.400	0.145
LQF6045-470 □	47	M	1.300	1.100	0.220
LQF6045-680 □	68	M	1.000	0.900	0.330
LQF6045-101 □	100	M	0.800	0.700	0.500

## LPI7025 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±20% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF7025-1R5 □	1.5	N	7.40	5.50	0.021
LQF7025-2R2 □	2.2	N	6.00	5.30	0.025
LQF7025-3R3 □	3.3	N	5.00	4.20	0.034
LQF7025-4R7 □	4.7	N	4.15	3.70	0.045
LQF7025-6R8 □	6.8	N	3.80	3.30	0.065
LQF7025-100 □	10	M	3.00	2.90	0.090
LQF7025-150 □	15	M	2.30	2.50	0.110
LQF7025-220 □	22	M	1.90	2.00	0.165
LQF7025-330 □	33	M	1.50	1.60	0.200
LQF7025-470 □	47	M	1.30	1.30	0.300

## LQF8040 SERIES

Part No. 品名	Inductance 電感值(μH)	Tolerance 公差	Rated Current※(A) 耐電流		DCR Resistance(Ω)±30% 直流電阻
			Saturation current Idc1	Temperature current Idc2	
LQF8040-0R9 □	0.9	N	11.000	7.800	0.006
LQF8040-1R4 □	1.4	N	9.000	7.000	0.007
LQF8040-2R0 □	2.0	N	7.400	6.300	0.009
LQF8040-3R6 □	3.6	N	5.300	4.900	0.015
LQF8040-4R7 □	4.7	N	4.700	4.100	0.018
LQF8040-6R8 □	6.8	N	4.000	3.700	0.025
LQF8040-100 □	10	M	3.400	3.100	0.034
LQF8040-150 □	15	M	2.700	2.400	0.050
LQF8040-220 □	22	M	2.200	2.200	0.066
LQF8040-330 □	33	M	1.900	1.700	0.100
LQF8040-470 □	47	M	1.500	1.400	0.150
LQF8040-680 □	68	M	1.200	1.100	0.230
LQF8040-101 □	100	M	1.000	1.000	0.290

□ Tolerance: M: ±20% N: ±30%