

Wire Wound Ferrite Chip Inductors / QFLC Series

Feature

1. Ferrite core wire wound construction.
2. Provide low DC resistance and high current.
3. Precision inductance tolerance is available.
4. Small footprint as well as profile.
5. All support Lead-Free Parts.

Application

1. Personal computers, Hard disk drives.
2. ADSL modem and Cable modem.
3. Digital camera or portable product.
4. Measuring instruments.

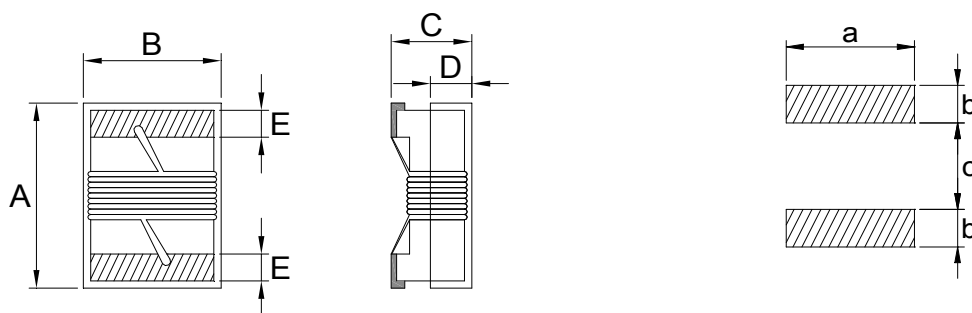
Product Identification

QFLC 201212 - 1R0 K - D

1 2 3 4 5

1. Series name.
2. Dimension.(See Details)
3. Inductance.(See Details)
4. Tolerance.(See Details)
5. Marked color dot

Configurations & Dimensions



PCB Pattern

Series Name	A	B	C	D	E	a	b	c
QFLC161010	1.80 max.	1.20 max.	1.20 max.	0.38 typ.	0.35 ± 0.1	1.10	0.64	0.64
QFLC201212	2.40 max.	1.60 max.	1.40 max.	0.51 typ.	0.45 ± 0.1	1.80	0.90	1.00
QFLC252015	2.90 max.	2.50 max.	1.50 max.	1.00 typ.	0.55 ± 0.1	2.54	1.00	1.30
QFLC252018	2.90 max.	2.50 max.	2.10 max.	1.20 typ.	0.55 ± 0.1	2.54	1.00	1.30
QFLC322522	3.60 max.	2.80 max.	2.50 max.	0.80 typ.	0.55 ± 0.1	2.80	1.00	2.00

Unit: mm

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Electrical Characteristics / QFLC161010

System Number	Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
		μ H / MHz	Tolerance				
WP71O0918-00	QFLC161010-47N__	0.047/7.96	K,M	10/7.96	1,500	0.08	1,400
WP71O0920-00	QFLC161010-R10__	0.10/7.96	K,M	10/7.96	150	0.13	1,400
WP71O0921-00	QFLC161010-R12__	0.12/7.96	K,M	10/7.96	1,100	0.15	1,400
WP71O0922-00	QFLC161010-R15__	0.15/7.96	K,M	10/7.96	1,050	0.15	1,300
WP71O0923-00	QFLC161010-R18__	0.18/7.96	K,M	10/7.96	950	0.15	1,300
WP71O0924-00	QFLC161010-R22__	0.22/7.96	K,M	10/7.96	800	0.15	950
WP71O092C-00	QFLC161010-R24__	0.24/7.96	K,M	10/7.96	800	0.31	620
WP71O0925-00	QFLC161010-R27__	0.27/7.96	K,M	10/7.96	775	0.20	710
WP71O0926-00	QFLC161010-R33__	0.33/7.96	K,M	10/7.96	725	0.35	620
WP71O0927-00	QFLC161010-R39__	0.39/7.96	K,M	10/7.96	620	0.39	600
WP71O0928-00	QFLC161010-R47__	0.47/7.96	K,M	10/7.96	540	0.43	570
WP71O0929-00	QFLC161010-R56__	0.56/7.96	K,M	10/7.96	525	0.47	550
WP71O092A-00	QFLC161010-R68__	0.68/7.96	K,M	10/7.96	460	0.52	470
WP71O092B-00	QFLC161010-R82__	0.82/7.96	K,M	10/7.96	410	0.69	400
WP71O0930-00	QFLC161010-1R0__	1.0/7.96	J,K	10/7.96	190	0.81	400
WP71O0931-00	QFLC161010-1R2__	1.2/7.96	J,K	10/7.96	160	0.87	370
WP71O0932-00	QFLC161010-1R5__	1.5/7.96	J,K	10/7.96	100	0.96	350
WP71O0933-00	QFLC161010-1R8__	1.8/7.96	J,K	10/7.96	80	1.10	350
WP71O0934-00	QFLC161010-2R2__	2.2/7.96	J,K	10/7.96	68	1.20	320
WP71O0936-00	QFLC161010-3R3__	3.3/7.96	J,K	10/7.96	42	1.50	280
WP71O0937-00	QFLC161010-3R9__	3.9/7.96	J,K	10/7.96	40	1.50	280
WP71O0938-00	QFLC161010-4R7__	4.7/7.96	J,K	10/7.96	34	2.10	260
WP71O0939-00	QFLC161010-5R6__	5.6/7.96	J,K	10/7.96	32	2.60	240
WP71O093A-00	QFLC161010-6R8__	6.8/7.96	J,K	10/7.96	31	3.10	200
WP71O093B-00	QFLC161010-8R2__	8.2/7.96	J,K	10/7.96	26	4.40	190
WP71O0940-00	QFLC161010-100__	10.0/2.52	J,K	10/2.52	25	4.80	180

※ Please specify the inductance tolerance : J,K,M (See Details).

※ Rated current that will cause temperature rise approximate 20℃ without core loss.

Wire Wound Ferrite Chip Inductors / QFLC Series

■ Electrical Characteristics / QFLC201212

System Number	Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
		uH / MHz	Tolerance				
WP71O1028-00	QFLC201212-R47 __	0.47/7.96	K,M	10/7.96	720	0.20	750
WP71O1029-00	QFLC201212-R56 __	0.56/7.96	K,M	10/7.96	665	0.21	730
WP71O102A-00	QFLC201212-R68 __	0.68/7.96	K,M	10/7.96	565	0.28	670
WP71O102B-00	QFLC201212-R82 __	0.82/7.96	K,M	10/7.96	545	0.31	650
WP71O1030-00	QFLC201212-1R0 __	1.0/7.96	K,M	10/7.96	525	0.34	615
WP71O1031-00	QFLC201212-1R2 __	1.2/7.96	K,M	10/7.96	473	0.39	550
WP71O1032-00	QFLC201212-1R5 __	1.5/7.96	K,M	10/7.96	300	0.45	520
WP71O1033-00	QFLC201212-1R8 __	1.8/7.96	K,M	10/7.96	230	0.48	500
WP71O1034-00	QFLC201212-2R2 __	2.2/7.96	K,M	10/7.96	215	0.67	420
WP71O1035-00	QFLC201212-2R7 __	2.7/7.96	K,M	10/7.96	140	0.74	410
WP71O1036-00	QFLC201212-3R3 __	3.3/7.96	K,M	10/7.96	95	0.81	385
WP71O1037-00	QFLC201212-3R9 __	3.9/7.96	K,M	10/7.96	57	0.88	372
WP71O1038-00	QFLC201212-4R7 __	4.7/7.96	K,M	10/7.96	51	0.99	345
WP71O1039-00	QFLC201212-5R6 __	5.6/7.96	K,M	10/7.96	44	1.06	335
WP71O103A-00	QFLC201212-6R8 __	6.8/7.96	K,M	10/7.96	39	1.21	315
WP71O103B-00	QFLC201212-8R2 __	8.2/7.96	K,M	10/7.96	33	1.33	295
WP71O1040-00	QFLC201212-100 __	10/2.52	K,M	10/2.52	30	1.79	260
WP71O1041-00	QFLC201212-120 __	12/2.52	K,M	10/2.52	27	1.98	250
WP71O1042-00	QFLC201212-150 __	15/2.52	K,M	10/2.52	22	2.68	215
WP71O1043-00	QFLC201212-180 __	18/2.52	K,M	10/2.52	20	3.12	195
WP71O1044-00	QFLC201212-220 __	22/2.52	K,M	10/2.52	18	3.48	180
WP71O1045-00	QFLC201212-270 __	27/2.52	K,M	10/2.52	16	3.84	170
WP71O1046-00	QFLC201212-330 __	33/2.52	K,M	10/2.52	15	4.34	145
WP71O1048-00	QFLC201212-470 __	47/2.52	K,M	10/2.52	10	5.14	100

※ Please specify the inductance tolerance : K,M (See Details).

※ Rated current that will cause temperature rise approximate 20°C without core loss.

Wire Wound Ferrite Chip Inductors / QFLC Series

Electrical Characteristics / QFLC252015

System Number	Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
		μ H / MHz	Tolerance				
WP71O1130-00	QFLC252015-1R0 __	1.0/7.96	K,M	15/7.96	349	0.18	1,100
WP71O1134-00	QFLC252015-2R2 __	2.2/7.96	K,M	14/7.96	187	0.43	850
WP71O1136-00	QFLC252015-3R3 __	3.3/7.96	K,M	14/7.96	72	0.53	700
WP71O1138-00	QFLC252015-4R7 __	4.7/7.96	K,M	13/7.96	46	0.82	550
WP71O1139-00	QFLC252015-5R6 __	5.6/7.96	K,M	13/7.96	35	0.88	500
WP71O113A-00	QFLC252015-6R8 __	6.8/7.96	K,M	12/7.96	25	0.99	450
WP71O113B-00	QFLC252015-8R2 __	8.2/2.52	K,M	16/2.52	20	1.08	400
WP71O1140-00	QFLC252015-100 __	10/2.52	K,M	16/2.52	19	1.60	350
WP71O1142-00	QFLC252015-150 __	15/2.52	K,M	16/2.52	17	2.00	300
WP71O1144-00	QFLC252015-220 __	22/2.52	K,M	16/2.52	12	3.00	260
WP71O1146-00	QFLC252015-330 __	33/2.52	K,M	16/2.52	9.8	4.38	120

Electrical Characteristics / QFLC252018

System Number	Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
		μ H / MHz	Tolerance				
WP71O1230-00	QFLC252018-1R0 __	1.0/7.96	M	12/7.96	345	0.13	1,000
WP71O1232-00	QFLC252018-1R5 __	1.5/7.96	M	12/7.96	100	0.17	850
WP71O1234-00	QFLC252018-2R2 __	2.2/7.96	M	12/7.96	78	0.21	775
WP71O1236-00	QFLC252018-3R3 __	3.3/7.96	K,M	12/7.96	48	0.26	715
WP71O1238-00	QFLC252018-4R7 __	4.7/7.96	K,M	12/7.96	46	0.52	505
WP71O123A-00	QFLC252018-6R8 __	6.8/7.96	K,M	12/7.96	33	0.72	432
WP71O123B-00	QFLC252018-8R2 __	8.2/2.52	K,M	12/2.52	30	0.76	410
WP71O1240-00	QFLC252018-100 __	10/2.52	K,M	12/2.52	28	0.86	392
WP71O1242-00	QFLC252018-150 __	15/2.52	K,M	12/2.52	21	1.09	342
WP71O1244-00	QFLC252018-220 __	22/2.52	K,M	12/2.52	18	1.96	260
WP71O1246-00	QFLC252018-330 __	33/2.52	K,M	12/2.52	15	2.47	236

※ Please specify the inductance tolerance : K,M (See Details).

※ Rated current that will cause temperature rise approximate 20°C without core loss.

Wire Wound Ferrite Chip Inductors / QFLC Series

Electrical Characteristics / QFLC322522

System Number	Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
		μ H / MHz	Tolerance				
WP71O1330-00	QFLC322522-1R0 __	1.0/7.96	K,M	10/7.96	290	0.12	1,200
WP71O1332-00	QFLC322522-1R5 __	1.5/7.96	K,M	10/7.96	260	0.13	1,000
WP71O1334-00	QFLC322522-2R2 __	2.2/7.96	K,M	10/7.96	190	0.17	880
WP71O1336-00	QFLC322522-3R3 __	3.3/7.96	K,M	10/7.96	64	0.22	775
WP71O1338-00	QFLC322522-4R7 __	4.7/7.96	K,M	10/7.96	54	0.26	710
WP71O133A-00	QFLC322522-6R8 __	6.8/7.96	K,M	10/7.96	34	0.30	660
WP71O1340-00	QFLC322522-100 __	10/2.52	K,M	10/2.52	25	0.39	570
WP71O1342-00	QFLC322522-150 __	15/2.52	K,M	10/2.52	17	0.66	440
WP71O1344-00	QFLC322522-220 __	22/2.52	K,M	10/2.52	16	0.82	400
WP71O1346-00	QFLC322522-330 __	33/2.52	K,M	10/2.52	12	1.50	285
WP71O1347-00	QFLC322522-390 __	39/2.52	K,M	10/2.52	12	1.66	270
WP71O1348-00	QFLC322522-470 __	47/2.52	K,M	10/2.52	10	1.90	260
WP71O134A-00	QFLC322522-680 __	68/2.52	K,M	10/2.52	9	2.29	235
WP71O1350-00	QFLC322522-101 __	100/1.0	K,M	10/1.0	7	3.48	190
WP71O1352-00	QFLC322522-151 __	150/1.0	K,M	10/1.0	5	6.55	140
WP71O1354-00	QFLC322522-221 __	220/1.0	K,M	10/1.0	4	8.23	115
WP71O1356-00	QFLC322522-331 __	330/1.0	K,M	10/1.0	2.8	13.65	98
WP71O1358-00	QFLC322522-471 __	470/1.0	K,M	10/1.0	2.6	18.07	86
WP71O135A-00	QFLC322522-681 __	680/1.0	K,M	10/1.0	2.3	22.02	76

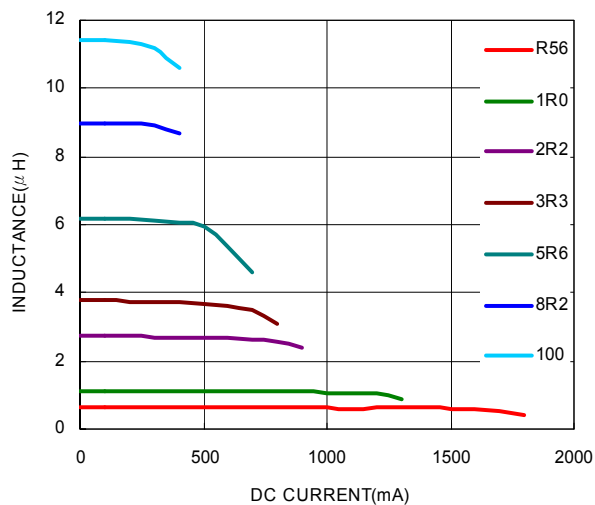
※ Please specify the inductance tolerance : K,M (See Details).

※ Rated current that will cause temperature rise approximate 20°C without core loss.

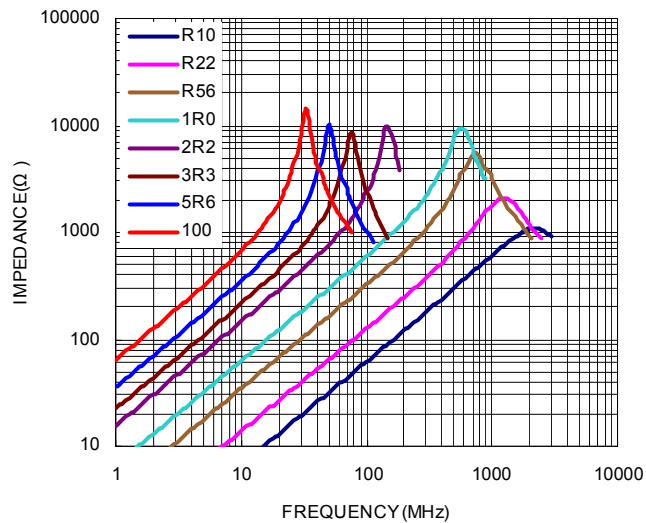
Wire Wound Ferrite Chip Inductors / QFLC Series

Electrical Curve / QFLC161010 , QFLC201212 , QFLC252015

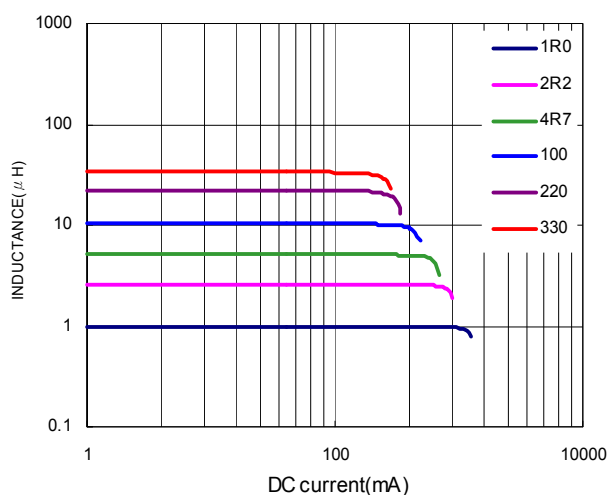
QFLC161010-Series L vs IDC



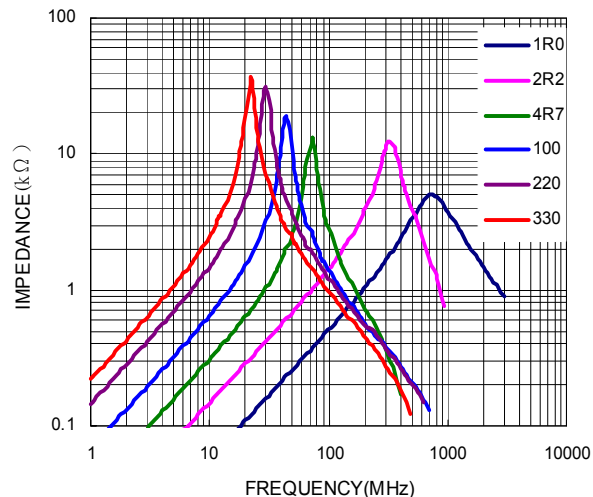
QFLC161010-Series Z vs Freq



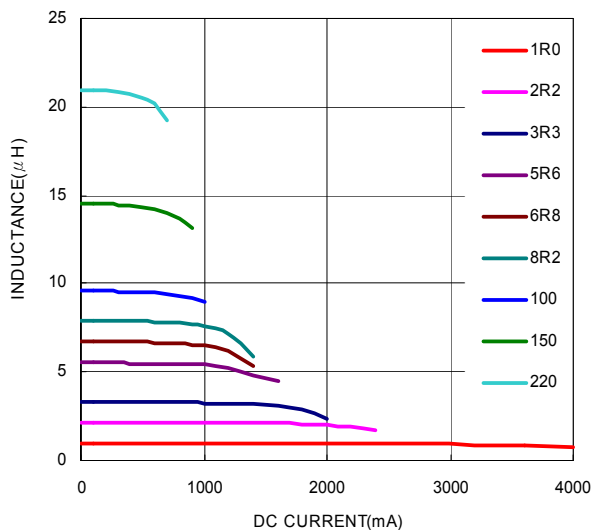
QFLC201212-Series L VS IDC



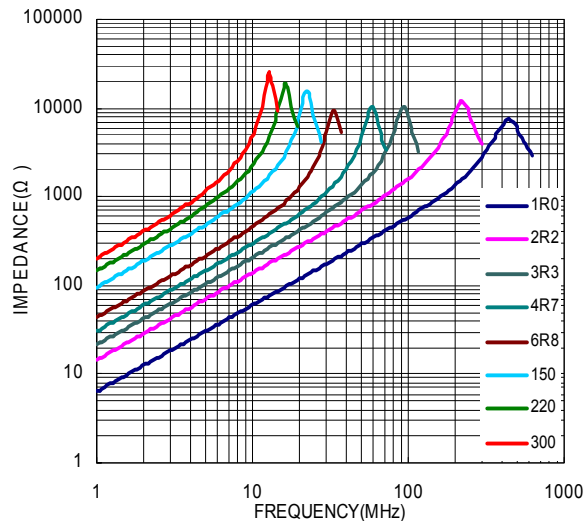
QFLC201212-Series Z VS Freq



QFLC252015-Series L vs IDC



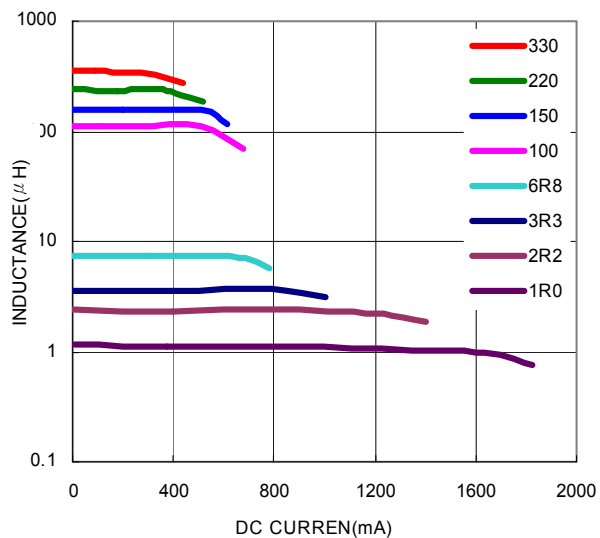
QFLC252015-Series Z vs Freq



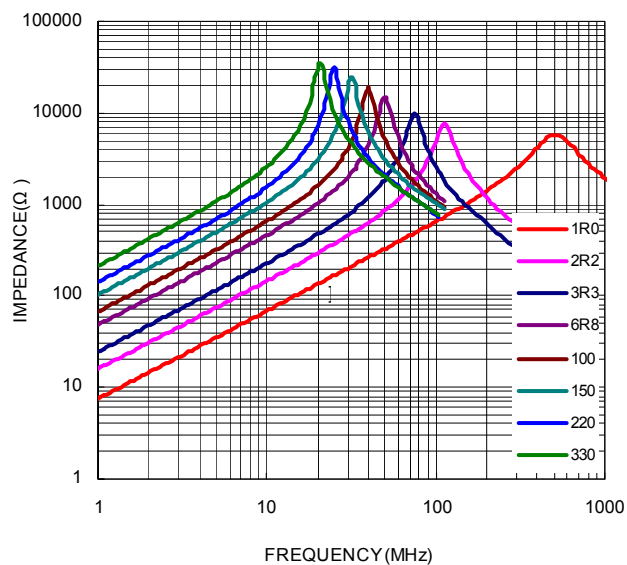
Wire Wound Ferrite Chip Inductors / QFLC Series

Electrical Curve / QFLC252018 , QFLC322522

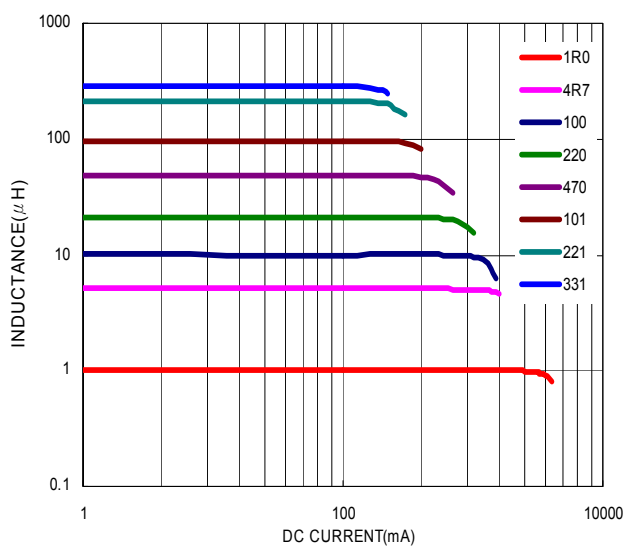
QFLC252018-Series L vs IDC



QFLC252018-Series Z vs Freq



QFLC322522-Series L vs IDC



QFLC322522-Series Z vs Freq

