

On-Board Type Coils / Chip Inductors



For Choke Use Winding Type **LQC Series**

LQC Series

The Tai-Tech's LQC series has low DC resistance, high current capacity and large inductance which makes them suitable for enhancing the performance of electronic circuits in video, communications and audio equipment.

臺慶的LQC 系列具低直流電阻及高電流容量，故適合用於提高影像、通訊及無線電設備的表現。



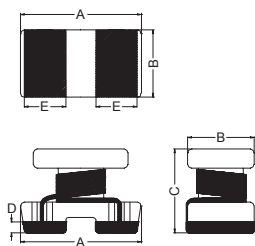
■ Features

1. Excellent for use as power supply circuit.
2. Wide inductance range from 0.12uH to 560uH.
3. Suitable for flow and reflow soldering.
4. Excellent solderability and heat resistance.

● 特徵

1. 絕佳的適用於電源供應線路。
2. 感值範圍廣，從0.12uH 至560uH。
3. 適合一般焊接及迴焊。
4. 良好的焊錫性及耐熱性。

■ Dimensions



Chip size					
Size □	A(mm) □	B(mm)	C(mm)	D(mm)	E(mm)
201517	2.0±0.2	1.5±0.2	1.7±0.2	0.15min.	0.6±0.2
252018	2.5±0.2	2.0±0.2	1.8±0.2	0.15min.	0.8±0.2
321618	3.2±0.3	1.6±0.3	1.8±0.3	0.15min.	1.15±0.2
322522	3.2±0.3	2.5±0.3	2.2±0.3	0.15min.	1.15±0.2
453226	4.5±0.3	3.2±0.3	2.6±0.3	0.15typ.	1.75min.

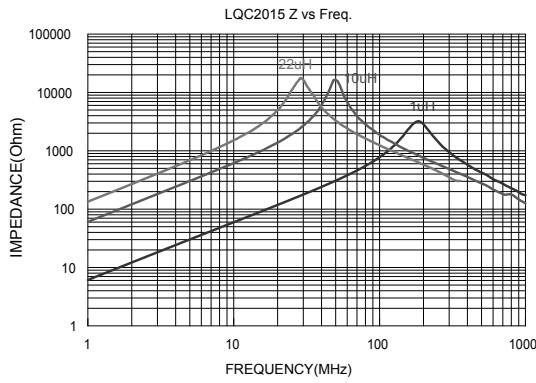
■ LQC 2015 Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
LQC2015-1R0K	1.0±10%	7.96	700	0.208	100
LQC2015-2R2K	2.2±10%	7.96	620	0.299	80
LQC2015-4R7K	4.7±10%	7.96	430	0.520	45
LQC2015-100K	10±10%	2.52	300	0.910	32
LQC2015-220K	22±10%	2.52	220	2.210	16

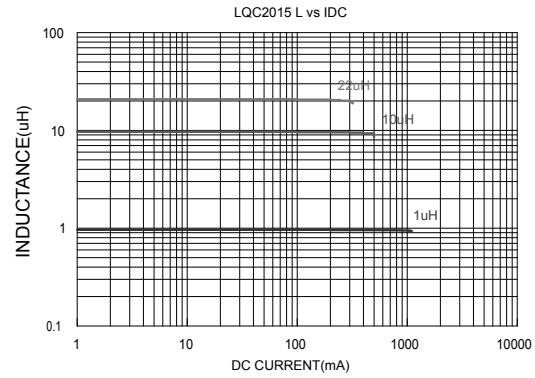
Test equipment L, Q: HP4192A, HP4284A LCR METER/Rdc: HP4338A, HP4338B MILLIOHM METER/SRF: HP4291A, HP8753ES NETWORK ANALYZER

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■ Impedance v.s. Frequency Characteristics



■ Inductance v.s. DC Current Characteristics

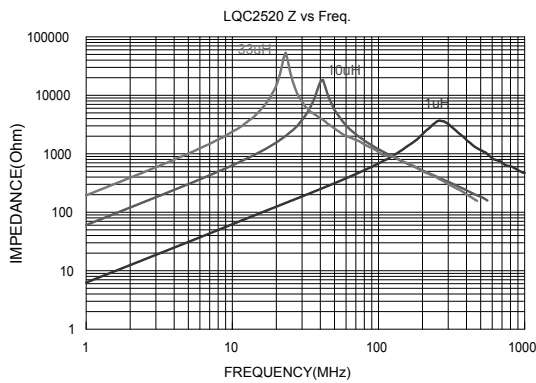


■ LQC 2520 Series

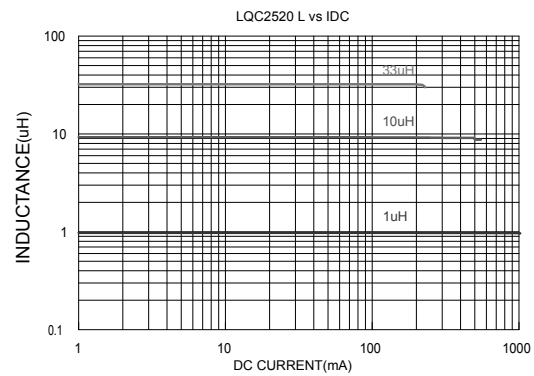
Part Number	Inductance (uH)	Test Frequency (MHz)	Rated Current (mA) max	DCR (Ω) max.	SRF (MHz) min.
LQC2520-1R0M	1.0 ± 20%	7.96	475	0.442	200
LQC2520-1R5M	1.5 ± 20%	7.96	435	0.546	165
LQC2520-2R2M	2.2 ± 20%	7.96	390	0.650	95
LQC2520-3R3M	3.3 ± 20%	7.96	340	0.845	55
LQC2520-4R7M	4.7 ± 20%	7.96	285	1.040	43
LQC2520-6R8M	6.8 ± 20%	7.96	275	1.300	39
LQC2520-100K	10 ± 10%	2.52	210	2.197	32
LQC2520-150K	15 ± 10%	2.52	175	2.860	21
LQC2520-220K	22 ± 10%	2.52	160	3.640	18
LQC2520-330K	33 ± 10%	2.52	120	5.460	16

Test equipment L,Q:HP4192A , HP4284A LCR METER/Rdc:HP4338A , HP4338B MILLIOHM METER/SRF:HP4291A , HP8753ES NETWORK ANALYZER

■ Impedance v.s. Frequency Characteristics



■ Inductance v.s. DC Current Characteristics



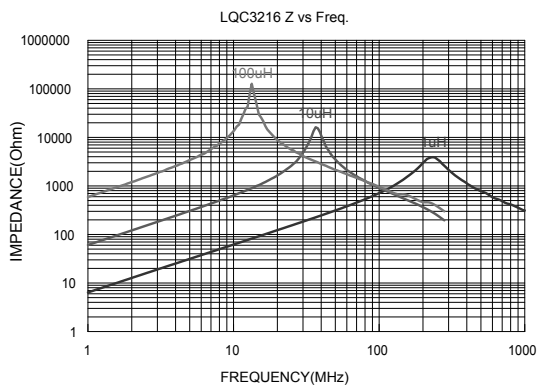
■ LQC 3216 Series

Part Number	Inductance (uH)	Test Frequency (MHz)	Rated Current (mA) max	DCR (Ω) max.	SRF (MHz) min.
LQC3216-R12M	0.12 ± 20%	1	970	0.112	250
LQC3216-R22M	0.22 ± 20%	1	850	0.140	250
LQC3216-R47M	0.47 ± 20%	1	700	0.210	180
LQC3216-1R0M	1.00 ± 20%	1	510	0.364	100
LQC3216-2R2M	2.20 ± 20%	1	430	0.533	50
LQC3216-4R7M	4.70 ± 20%	1	340	0.845	31
LQC3216-100K	10.0 ± 10%	1	230	1.690	20
LQC3216-220K	22.0 ± 10%	1	160	3.900	14
LQC3216-470K	47.0 ± 10%	1	100	10.40	10
LQC3216-101K	100 ± 10%	1	80	15.60	7

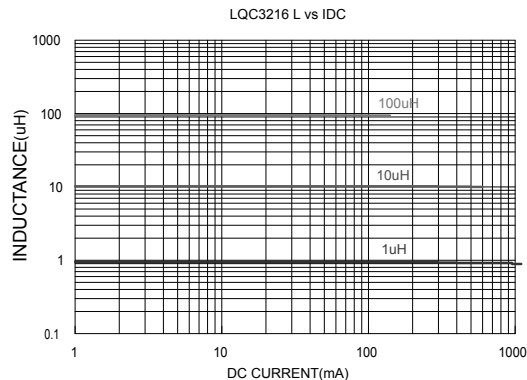
Test equipment L,Q:HP4192A , HP4284A LCR METER/Rdc:HP4338A , HP4338B MILLIOHM METER/SRF:HP4291A , HP8753ES NETWORK ANALYZER

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■ Impedance v.s. Frequency Characteristics



■ Inductance v.s. DC Current Characteristics

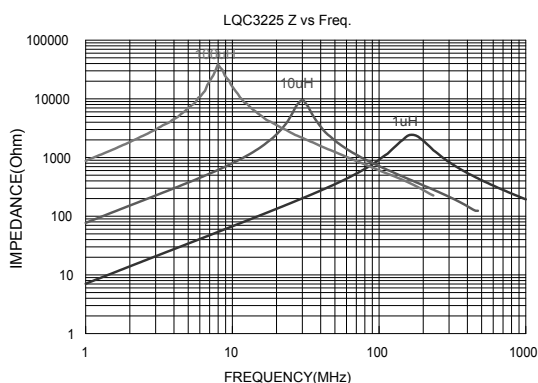


■ LQC 3225 Series

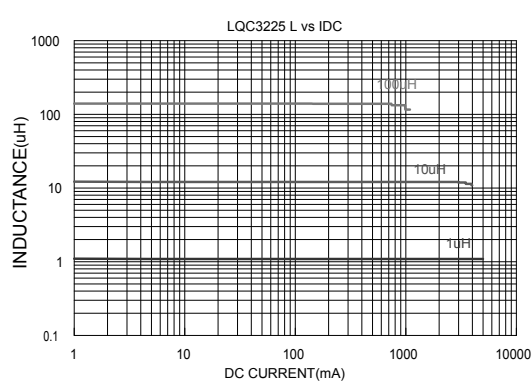
Part Number	Inductance (uH)	Test Frequency	Rated Current (mA) max	DCR (Ω) max.	SRF (MHz) min.
LQC3225-1R0M	1.0 ± 20%	1MHz	800	0.117	96
LQC3225-2R2M	2.2 ± 20%	1MHz	600	0.169	64
LQC3225-4R7M	4.7 ± 20%	1MHz	450	0.260	43
LQC3225-100K	10.0 ± 10%	1MHz	300	0.572	26
LQC3225-220K	22.0 ± 10%	1MHz	250	0.923	19
LQC3225-470K	47.0 ± 10%	1MHz	170	1.690	15
LQC3225-101K	100 ± 10%	1MHz	100	4.550	10
LQC3225-221K	220 ± 10%	1MHz	70	10.92	6.8
LQC3225-331K	330 ± 10%	1MHz	60	13.00	5.6
LQC3225-391K	390 ± 10%	1MHz	60	22.10	5
LQC3225-471K	470 ± 10%	1KHz	60	24.70	5
LQC3225-561K	560 ± 10%	1KHz	60	28.60	5

Test equipment L,Q:HP4192A , HP4284A LCR METER/Rdc:HP4338A , HP4338B MILLIOHM METER/SRF:HP4291A , HP8753ES NETWORK ANALYZER

■ Impedance v.s. Frequency Characteristics



■ Inductance v.s. DC Current Characteristics



■ LQC 4532 Series

Part Number	Inductance (uH)	Test Frequency	Rated Current (mA) max	DCR (Ω) max.	SRF (MHz) min.
LQC4532-1R0M	1.0 ± 20%	1MHz	1080	0.08	100
LQC4532-1R5M	1.5 ± 20%	1MHz	1000	0.09	85
LQC4532-2R2M	2.2 ± 20%	1MHz	900	0.11	60
LQC4532-3R3M	3.3 ± 20%	1MHz	800	0.13	47

Test equipment L,Q:HP4192A , HP4284A LCR METER/Rdc:HP4338A , HP4338B MILLIOHM METER/SRF:HP4291A , HP8753ES NETWORK ANALYZER

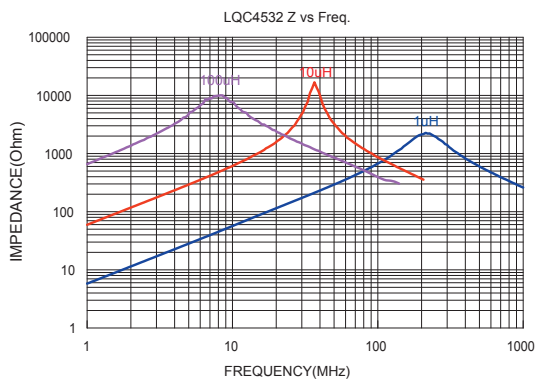
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■ LQC 4532 Series

Part Number	Inductance (uH)	Test Frequency	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
LQC4532-4R7M	$4.7 \pm 20\%$	1MHz	750	0.15	35
LQC4532-6R8M	$6.8 \pm 20\%$	1MHz	720	0.20	30
LQC4532-100K	$10.0 \pm 10\%$	1MHz	650	0.24	23
LQC4532-150K	$15.0 \pm 10\%$	1MHz	570	0.32	20
LQC4532-220K	$22.0 \pm 10\%$	1MHz	420	0.60	15
LQC4532-330K	$33.0 \pm 10\%$	1MHz	310	1.00	12
LQC4532-470K	$47.0 \pm 10\%$	1MHz	280	1.10	10
LQC4532-680K	$68.0 \pm 10\%$	1MHz	220	1.70	8.4
LQC4532-101K	$100 \pm 10\%$	1MHz	190	2.20	6.8
LQC4532-151K	$150 \pm 10\%$	1MHz	130	3.50	5.5
LQC4532-221K	$220 \pm 10\%$	1MHz	110	4.00	4.5
LQC4532-331K	$330 \pm 10\%$	1MHz	100	6.80	3.6
LQC4532-471K	$470 \pm 10\%$	1KHz	90	8.50	3.0

Test equipment L,Q:HP4192A , HP4284A LCR METER/Rdc:HP4338A , HP4338B MILLIOHM METER/SRF:HP4291A , HP8753ES NETWORK ANALYZER

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