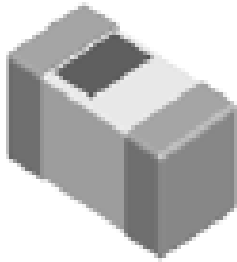




Multilayer Chip Ceramic Inductor

HRCL-CQ 0603 Series



Features

- ◆ Monolithic structure for high reliability
- ◆ High self-resonant frequency
- ◆ Excellent solderability and high heat resistance
- ◆ High Q factor

Applications

- ◆ RF circuit in telecommunication and other equipments

Description Of Part Name

HRCL = C Q 0603 T 10N J F XX
 A B C D E F G H I

A

Type	
HRCL	Chip Ceramic Inductor

B

Material Code	
C	Ceramic

C

Characteristics Code	
Q	

D

External Dimensions (L×W) (mm)	
0603 [0201]	0.6×0.3

E

Packing	
T	Tape & Reel

F

Nominal Inductance	
Example	Nominal Value
3N0	3.0nH
10N	10nH
※R=Point, N=nH	

G

Inductance Tolerance	
B	±0.1nH
C	±0.2nH
S	±0.3nH
G	±2%
H	±3%
J	±5%

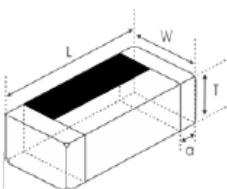
H

Hazardous Substance Free Products	
F	

I

Internal Code	
XX	

SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
HRCL-CQ0603	0.6±0.05	0.3±0.05	0.3±0.05	0.12±0.05
[0201]	[.024±002]	[.012±002]	[.012±002]	[.0048±002]

The data is reference only. Customers should verify actual device performance in their specific applications. Specifications are subject to change without notice. Please check our website for latest information. <http://www.ftind.com>



Multilayer Chip Ceramic Inductor

HRCL-CQ0603 Series

SPECIFICATIONS

HRCL-CQ0603TYPE

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.	Typical Q @ Freq. (GHz)					Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current	Thickness
				0.5	0.8	1.8	2.0	2.4				
Units Symbol	nH L	- Q	MHz Freq.	-					MHz S.R.F	Ω DCR	mA Ir	mm[inch] T
HRCL-CQ0603T0N6□F	0.6	13	500	>24	>32	>54	>57	>65	10000	0.06	600	0.3±0.05 [.012±002]
HRCL-CQ0603T0N7□F	0.7	13	500	>24	>32	>54	>57	>65	10000	0.06	550	
HRCL-CQ0603T0N8□F	0.8	13	500	>24	>32	>54	>57	>65	10000	0.07	550	
HRCL-CQ0603T0N9□F	0.9	13	500	>24	>32	>54	>57	>65	10000	0.07	550	
HRCL-CQ0603T1N0□F	1.0	13	500	24	32	54	57	65	10000	0.08	520	
HRCL-CQ0603T1N1□F	1.1	13	500	19	26	45	47	55	10000	0.11	440	
HRCL-CQ0603T1N2□F	1.2	13	500	19	25	43	44	52	10000	0.12	420	
HRCL-CQ0603T1N3□F	1.3	13	500	19	25	40	42	47	10000	0.12	420	
HRCL-CQ0603T1N4□F	1.4	13	500	19	24	39	41	47	10000	0.11	440	
HRCL-CQ0603T1N5□F	1.5	13	500	19	24	39	41	46	10000	0.12	420	
HRCL-CQ0603T1N6□F	1.6	13	500	19	24	39	41	46	10000	0.13	410	
HRCL-CQ0603T1N7□F	1.7	13	500	19	24	39	41	46	10000	0.15	380	
HRCL-CQ0603T1N8□F	1.8	13	500	19	24	39	41	46	10000	0.15	380	
HRCL-CQ0603T1N9□F	1.9	13	500	18	24	38	40	45	10000	0.18	350	
HRCL-CQ0603T2N0□F	2.0	13	500	17	24	38	39	44	10000	0.23	300	
HRCL-CQ0603T2N1□F	2.1	13	500	17	24	37	39	44	10000	0.24	300	
HRCL-CQ0603T2N2□F	2.2	13	500	17	24	38	40	43	10000	0.25	290	
HRCL-CQ0603T2N3□F	2.3	13	500	17	24	37	39	43	10000	0.20	330	
HRCL-CQ0603T2N4□F	2.4	13	500	17	23	36	38	42	10000	0.22	310	
HRCL-CQ0603T2N5□F	2.5	13	500	17	23	35	36	40	9600	0.20	330	
HRCL-CQ0603T2N6□F	2.6	13	500	17	22	34	35	39	9400	0.20	330	
HRCL-CQ0603T2N7□F	2.7	13	500	17	22	34	35	39	9200	0.22	310	
HRCL-CQ0603T2N8□F	2.8	13	500	17	22	34	35	39	8900	0.24	300	
HRCL-CQ0603T2N9□F	2.9	13	500	17	22	34	35	39	8800	0.26	280	
HRCL-CQ0603T3N0□F	3.0	13	500	17	22	34	35	39	8600	0.26	280	
HRCL-CQ0603T3N1□F	3.1	13	500	17	22	34	35	39	8500	0.28	270	
HRCL-CQ0603T3N2□F	3.2	13	500	17	22	33	35	39	8200	0.28	270	
HRCL-CQ0603T3N3□F	3.3	13	500	18	23	34	36	40	8100	0.30	270	
HRCL-CQ0603T3N4□F	3.4	13	500	17	23	33	35	39	8000	0.30	270	
HRCL-CQ0603T3N5□F	3.5	13	500	17	23	33	35	39	7900	0.34	250	
HRCL-CQ0603T3N6□F	3.6	13	500	16	23	33	35	39	7700	0.38	240	
HRCL-CQ0603T3N7□F	3.7	13	500	16	23	33	35	38	7600	0.40	230	
HRCL-CQ0603T3N8□F	3.8	13	500	16	22	33	35	38	7500	0.42	230	

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Multilayer Chip Ceramic Inductor

HRCL-CQ0603 Series

SPECIFICATIONS

HRCL-CQ0603TYPE

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.	Typical Q @ Freq. (GHz)					Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current	Thickness
				0.5	0.8	1.8	2.0	2.4				
Units Symbol	nH L	- Q	MHz Freq.	- Q					MHz S.R.F	Ω DCR	mA Ir	mm[inch] T
HRCL-CQ0603T3N9□F	3.9	13	500	16	22	33	35	38	7400	0.42	230	0.3±0.05 [.012±.002]
HRCL-CQ0603T4N3□F	4.3	13	500	16	21	32	34	37	6800	0.44	220	
HRCL-CQ0603T4N7□F	4.7	13	500	16	22	33	35	38	6200	0.45	220	
HRCL-CQ0603T5N1□F	5.1	13	500	17	22	34	36	38	5900	0.46	210	
HRCL-CQ0603T5N6□F	5.6	13	500	16	21	33	34	37	5500	0.46	210	
HRCL-CQ0603T6N2□F	6.2	13	500	18	23	34	35	37	5100	0.48	210	
HRCL-CQ0603T6N8□F	6.8	13	500	17	22	32	33	35	4900	0.50	200	
HRCL-CQ0603T7N5□F	7.5	13	500	16	21	31	33	34	4700	0.50	200	
HRCL-CQ0603T8N2□F	8.2	13	500	16	21	31	32	34	4300	0.56	190	
HRCL-CQ0603T9N1□F	9.1	13	500	16	20	30	31	32	4100	0.72	170	
HRCL-CQ0603T10N□F	10	13	500	16	20	28	29	31	3800	0.80	160	
HRCL-CQ0603T12N□F	12	13	500	16	20	27	28	28	3400	0.80	160	
HRCL-CQ0603T15N□F	15	13	500	15	19	24	24	23	2600	0.85	160	
HRCL-CQ0603T18N□F	18	13	500	15	19	23	24	22	2300	1.00	140	
HRCL-CQ0603T22N□F	22	13	500	15	19	22	23	20	1900	1.20	130	
HRCL-CQ0603T27N□F	27	13	500	15	19	15	13	8	1800	1.60	120	
HRCL-CQ0603T33N□F	33	11	300	14	15	8	5	-	1800	2.20	110	
HRCL-CQ0603T39N□F	39	11	300	14	15	6	-	-	1600	2.30	100	
HRCL-CQ0603T47N□F	47	11	300	14	15	-	-	-	1500	2.60	100	
HRCL-CQ0603T56N□F	56	11	300	13	13	-	-	-	1400	2.80	80	
HRCL-CQ0603T68N□F	68	11	300	13	11	-	-	-	1200	3.20	80	
HRCL-CQ0603T82N□F	82	10	300	12	10	-	-	-	1100	3.80	70	
HRCL-CQ0603TR10□F	100	10	300	12	10	-	-	-	1000	4.00	60	
HRCL-CQ0603TR12□F	120	9	300	12	8	-	-	-	1000	5.00	50	

※ □: Please specify the inductance tolerance. For $L \leq 4.2\text{nH}$, choose $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$ or $S = \pm 0.3\text{nH}$;
For $4.2\text{nH} < L < 5.6\text{nH}$, choose, $H = \pm 3\%$, $J = \pm 5\%$. or $S = \pm 0.3\text{nH}$; For $L \geq 5.6\text{nH}$, choose, $H = \pm 3\%$, $J = \pm 5\%$.