



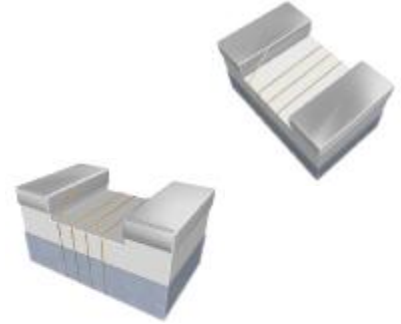
WIRE WOUND CHIP INDUCTORS

FEATURES

- I High Self-Resonance Frequency
- I Stable inductance at high frequency
- I Tight inductance tolerance
- I High Q factor
- I High current
- I Low DCR

MODEL

- I CCSP 0805 F
- I CCSP 0805 C
- I CCSP 0603 C
- I CCFH 0805 C
- I CCFH 0603 C
- I HCFT 0402 C



APPLICATIONS

- I Antenna amplifiers
- I Mobile phone
- I Key entry
- I GPS (Global Positioning System)
- I Wireless LAN
- I PDA (Personal Digital Assistant)

How to Specify Chip Inductor

C	C	S	P	0	6	0	3	C	2	N	7	J
□	□	□	□	□	□	□	□	□	□	□	□	□
①	②	③	④	⑤			⑥	⑦		⑧		

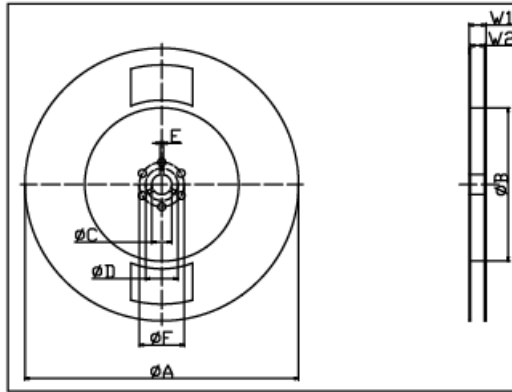
- ① Bobbin type C U shape
 H H shape
- ② Bobbin material C Ceramic Bobbin
 F Ferrite Bobbin
- ③ Electrode sort S Tin-Lead
 F Pb Free
- ④ Wire sort P General Wire
 S Soft Wire
 D UEW-D
 H HSEW
 T Special Wire
- ⑤ Bobin size 0402,0603,0805
- ⑥ CEC'S CODE (Controlled by CEC)
- ⑦ Inductance e.g. 2N7 \approx 2.7nH
 R39 \approx 390nH
- ⑧ Inductance tolerance F G J K M X Y
 $\pm 1\%$ $\pm 2\%$ $\pm 5\%$ $\pm 10\%$ $\pm 20\%$ $\pm 1.5\%$ $\pm 4.5\%$
- * Special instance CCSP 0805 F is Ferrite Bobbin.

※ Specifications other than the above will be furnished upon request.



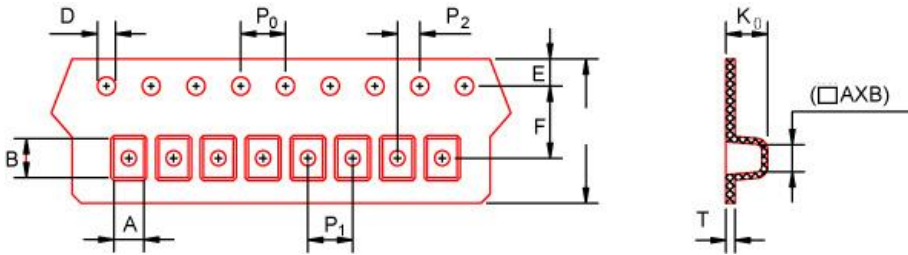
WIRE WOUND CHIP INDUCTORS

REEL DIMENSIONS (mm)



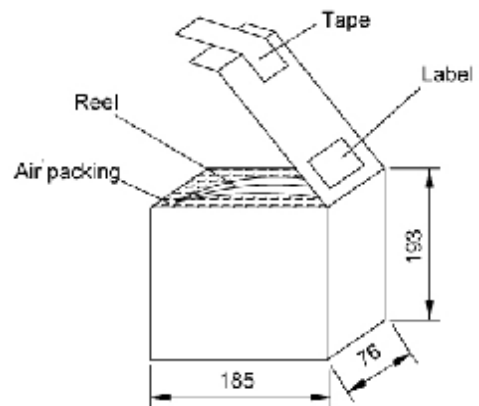
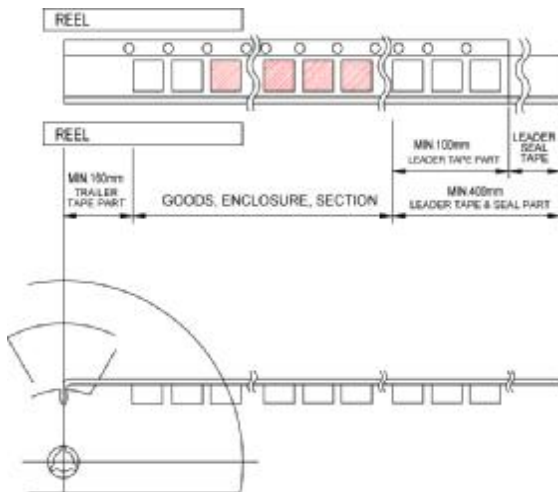
Model	A	B	C	D	E	W ₁	W ₂
0805	$\phi 180 \begin{matrix} +0 \\ -3 \end{matrix}$	$\phi 60 \pm 2$	$\phi 13 \pm 0.5$	$\phi 21 \pm 0.8$	2.0 ± 0.5	9 ± 0.5	11.5 ± 0.8
0603							
0402	$\phi 178 \pm 0.5$	$\phi 100 \pm 0.5$	$\phi 13 \pm 0.2$	$\phi 21 \pm 0.5$	$\phi 2.20 \pm 0.25$	$\phi 29 \pm 0.5$	$\phi 11.4 \pm 1.0$

TAPING DIMENSIONS (mm)



Model	A	B	K ₀	T	W	P ₀ ±0.1	P ₁	P ₂	D	E±0.1	F±0.05
0805	2.0 ± 0.2	2.6 ± 0.1	2.0 max.	0.3 max.	8.0 ± 0.3	4.0	4.0 ± 0.1	2.0 ± 0.5	$\phi 1.5 \pm 0.1$	1.75	3.5
0603	1.2 ± 0.2	2.0 ± 0.1	1.2max.	0.242 max.	8.0 ± 0.3	4.0	4.0 ± 0.1	2.0 ± 0.5	$\phi 1.5 \pm 0.1$	1.75	3.5
0402	0.70 ± 0.03	1.20 ± 0.03	0.60 ± 0.03	0.68 ± 0.02	$8.0 + 0.3/-0.1$	4.0	2.0 ± 0.05	2.0 ± 0.05	$\phi 1.5 + 0.1/-0$	1.75	3.5

PACKING DIMENSIONS (mm)

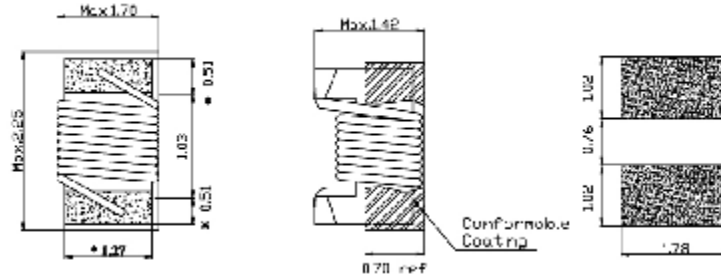


QUANTITY : 3,000 pcs



WIRE WOUND CHIP INDUCTORS

Construction & Dimensions: mm



CCSP0805F SERIES ELECTRICAL CHARACTERISTIC (H500-0086)

CEC. P/N	Inductance		Test Freq. (MHz)	Q Min.	S.R.F. (MHz)Min. Min.min.	DCR (Ω) max.	IDC (mA) max.
	L (μ H)	Tolerance					
CCSP 0805 F 1R0 □	1	J, K	7.96	15	387	0.46	434
CCSP 0805 F 1R2 □	1.2	J, K	7.96	15	269	0.51	425
CCSP 0805 F 1R5 □	1.5	J, K	7.96	15	228	0.56	390
CCSP 0805 F 1R8 □	1.8	J, K	7.96	15	238	0.76	338
CCSP 0805 F 2R2 □	2.2	J, K	7.96	15	189	0.84	313
CCSP 0805 F 2R7 □	2.7	J, K	7.96	15	156	1.09	284
CCSP 0805 F 3R3 □	3.3	J, K	7.96	15	151	1.24	262
CCSP 0805 F 3R9 □	3.9	J, K	7.96	15	133	1.32	250
CCSP 0805 F 4R7 □	4.7	J, K	7.96	15	107	1.46	238
CCSP 0805 F 5R0 □	5	J, K	7.96	15	101	1.64	230
CCSP 0805 F 5R6 □	5.6	J, K	7.96	15	111	2.05	217
CCSP 0805 F 6R8 □	6.8	J, K	7.96	15	87	2.21	212
CCSP 0805 F 8R2 □	8.2	J, K	7.96	15	79	2.47	204
CCSP 0805 F 10R □	10	J, K	2.52	9	83	3.53	168
CCSP 0805 F 12R □	12	J, K	2.52	9	61	4.1	156
CCSP 0805 F 15R □	15	J, K	2.52	9	52	4.62	150
CCSP 0805 F 18R □	18	J, K	2.52	9	15	4.6	148
CCSP 0805 F 22R □	22	J, K	2.52	8	15	5	143
CCSP 0805 F 27R □	27	J, K	2.52	8	15	5.6	130
CCSP 0805 F 33R □	33	J, K	2.52	8	15	6	112
CCSP 0805 F 39R □	39	J, K	2.52	7	15	8	108

Testing instrument and conditions :

DCR : HP 34420A or equivalent
S.R.F. : HP 8720ES or equivalent

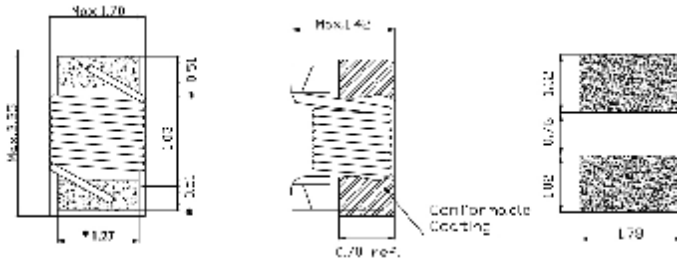
Inductance & Q : HP 4287A & HP 16193A or equivalent
DCI : based on a 20°C maximum temperature rise.

* Inductance tolerance : G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$

※ Specifications other than the above will be furnished upon request.

WIRE WOUND CHIP INDUCTORS

Construction & Dimensions: mm



Specification table of Wire Wound Chip Inductors CCSP 0805 C

CEC P/N	Inductance		Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	S.R.F. (MHz) min.	DCR (Ω) max.	DCI (mA) max.
	L (nH)	Tolerance *						
CCSP 0805 C 2N7 □	2.7	J, K	250	80	1500	7900	0.06	800
CCSP 0805 C 3N0 □	3.0	J, K	250	65	1500	7900	0.06	800
CCSP 0805 C 3N3 □	3.3	J, K	250	50	1500	7900	0.10	600
CCSP 0805 C 5N6 □	5.6	J, K	250	65	1000	5500	0.08	600
CCSP 0805 C 6N8 □	6.8	J, K	250	50	1000	5500	0.11	600
CCSP 0805 C 7N5 □	7.5	J, K	250	50	1000	4500	0.14	600
CCSP 0805 C 8N2 □	8.2	G, J, K	250	50	1000	4700	0.12	600
CCSP 0805 C 10N □	10.0	G, J, K	250	60	500	4200	0.10	600
CCSP 0805 C 12N □	12.0	G, J, K	250	50	500	4000	0.15	600
CCSP 0805 C 15N □	15.0	G, J, K	250	50	500	3400	0.17	600
CCSP 0805 C 18N □	18.0	G, J, K	250	50	500	3300	0.20	600
CCSP 0805 C 22N □	22.0	G, J, K	250	55	500	2600	0.22	500
CCSP 0805 C 24N □	24.0	G, J, K	250	50	500	2000	0.22	500
CCSP 0805 C 27N □	27.0	G, J, K	250	55	500	2500	0.25	500
CCSP 0805 C 33N □	33.0	G, J, K	250	60	500	2050	0.27	500
CCSP 0805 C 36N □	36.0	G, J, K	250	55	500	1700	0.27	500
CCSP 0805 C 39N □	39.0	G, J, K	250	60	500	2000	0.29	500
CCSP 0805 C 43N □	43.0	G, J, K	250	60	500	1650	0.34	500
CCSP 0805 C 47N □	47.0	G, J, K	200	60	500	1650	0.31	500
CCSP 0805 C 56N □	56.0	G, J, K	200	60	500	1550	0.34	500
CCSP 0805 C 68N □	68.0	G, J, K	200	60	500	1450	0.38	500
CCSP 0805 C 82N □	82.0	G, J, K	150	65	500	1300	0.42	400
CCSP 0805 C 91N □	91.0	G, J, K	150	65	500	1200	0.48	400
CCSP 0805 C R10 □	100.0	G, J, K	150	65	500	1200	0.46	400
CCSP 0805 C R11 □	110.0	G, J, K	150	50	250	1000	0.48	400
CCSP 0805 C R12 □	120.0	G, J, K	150	50	250	1100	0.51	400
CCSP 0805 C R15 □	150.0	G, J, K	100	50	250	920	0.56	400
CCSP 0805 C R18 □	180.0	G, J, K	100	50	250	870	0.64	400
CCSP 0805 C R22 □	220.0	G, J, K	100	50	250	850	0.70	400
CCSP 0805 C R24 □	240.0	G, J, K	100	44	250	690	1.0	350
CCSP 0805 C R27 □	270.0	G, J, K	100	48	250	650	1.0	350
CCSP 0805 C R33 □	330.0	G, J, K	100	48	250	600	1.4	310
CCSP 0805 C R39 □	390.0	G, J, K	100	48	250	560	1.5	290
CCSP 0805 C R47 □	470.0	J, K	50	33	100	375	1.76	250
CCSP 0805 C R56 □	560.0	J, K	25	23	50	340	1.90	230
CCSP 0805 C R68 □	680.0	J, K	25	23	50	188	2.20	190
CCSP 0805 C R82 □	820.0	J, K	25	23	50	215	2.35	180
CCSP 0805 C 1R0 □	1000.0	J, K	25	23	50	282	6.90	92

Testing instrument and conditions :

DCR : HP 34420A or equivalent
S.R.F. : HP 8720ES or equivalent

Inductance & Q : HP 4287A & HP 16193A or equivalent
DCI : based on a 20°C maximum temperature rise.

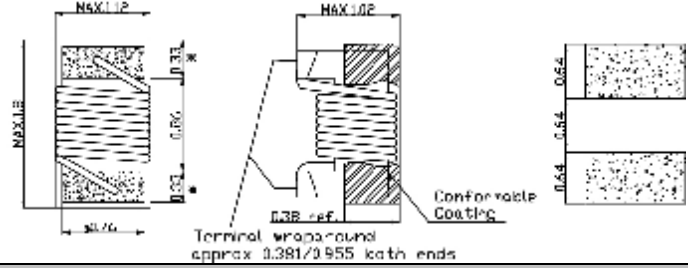
* Inductance tolerance : G = ±2%, J = ±5%, K = ±10%

※ Specifications other than the above will be furnished upon request.



WIRE WOUND CHIP INDUCTORS

Construction & Dimensions: mm



CCSP 0603 C SERIES ELECTRICAL CHARACTERISTIC (H5000001)

CEC P/N	Inductance		Q min.	Test Freq. (MHz)	S.R.F. (MHz) min.	DCR (Ω) max.	IDC (mA) max.
	L(nH)	Tolerance					
CCSP 0603 C 1N6 □	1.6	J, K	24	250	12500	0.030	700
CCSP 0603 C 1N8 □	1.8	J, K	16	250	12500	0.045	700
CCSP 0603 C 3N3 □	3.3	J, K	25	250	10000	0.050	700
CCSP 0603 C 3N6 □	3.6	J, K	22	250	5900	0.063	700
CCSP 0603 C 3N9 □	3.9	J, K	22	250	6900	0.080	700
CCSP 0603 C 4N3 □	4.3	J, K	22	250	5900	0.063	700
CCSP 0603 C 4N7 □	4.7	J, K	20	250	5800	0.130	700
CCSP 0603 C 5N1 □	5.1	J, K	20	250	5700	0.140	700
CCSP 0603 C 5N6 □	5.6	G,J,K	25	250	6000	0.1	700
CCSP 0603 C 6N8 □	6.8	G,J,K	27	250	5800	0.110	700
CCSP 0603 C 7N5 □	7.5	G,J,K	28	250	4800	0.106	700
CCSP 0603 C 8N2 □	8.2	G,J,K	28	250	4600	0.11	700
CCSP 0603 C 8N7 □	8.7	G,J,K	28	250	4600	0.109	700
CCSP 0603 C 9N5 □	9.5	G,J,K	28	250	5400	0.135	700
CCSP 0603 C 10N □	10	G,J,K	31	250	4800	0.130	700
CCSP 0603 C 11N □	11	G,J,K	33	250	4000	0.107	700
CCSP 0603 C 12N □	12	G,J,K	35	250	4000	0.130	700
CCSP 0603 C 15N □	15	G,J,K	35	250	4000	0.170	700
CCSP 0603 C 16N □	16	G,J,K	34	250	3300	0.134	700
CCSP 0603 C 18N □	18	G,J,K	35	250	3100	0.170	700
CCSP 0603 C 22N □	22	G,J,K	38	250	3000	0.190	700
CCSP 0603 C 24N □	24	G,J,K	37	250	2650	0.190	700
CCSP 0603 C 27N □	27	G,J,K	40	250	2800	0.220	600
CCSP 0603 C 30N □	30	G,J,K	37	250	2250	0.187	600
CCSP 0603 C 33N □	33	G,J,K	38	250	2300	0.260	600
CCSP 0603 C 36N □	36	G,J,K	38	250	2080	0.250	600
CCSP 0603 C 39N □	39	G,J,K	40	250	2200	0.250	600
CCSP 0603 C 43N □	43	G,J,K	39	250	2000	0.280	600
CCSP 0603 C 47N □	47	G,J,K	38	200	2000	0.280	600
CCSP 0603 C 56N □	56	G,J,K	38	200	1900	0.340	600
CCSP 0603 C 68N □	68	G,J,K	37	200	1700	0.340	600
CCSP 0603 C 72N □	72	G,J,K	34	150	1700	0.490	400
CCSP 0603 C 82N □	82	G,J,K	34	150	1700	0.540	400
CCSP 0603 C R10 □	100	G,J,K	34	150	1400	0.580	400
CCSP 0603 C R11 □	110	G,J,K	32	150	1350	0.610	300
CCSP 0603 C R12 □	120	G,J,K	32	150	1300	0.720	300
CCSP 0603 C R15 □	150	G,J,K	28	150	990	0.920	280
CCSP 0603 C R18 □	180	G,J,K	25	100	990	1.250	240
CCSP 0603 C R22 □	220	G,J,K	25	100	900	2.100	200
CCSP 0603 C R27 □	270	G,J,K	24	100	900	2.300	170
CCSP 0603 C R33 □	330	G,J,K	25	100	900	3.630	170
CCSP 0603 C R39 □	390	G,J,K	25	100	700	3.700	130

* Testing instrument and conditions

DCR : HP 34420A or equivalent

Inductance & Q : HP 4287A & HP16193A or equivalent

S.R.F. : HP 8720ES or equivalent

IDC : Based on a 20°C maximum temperature rise.

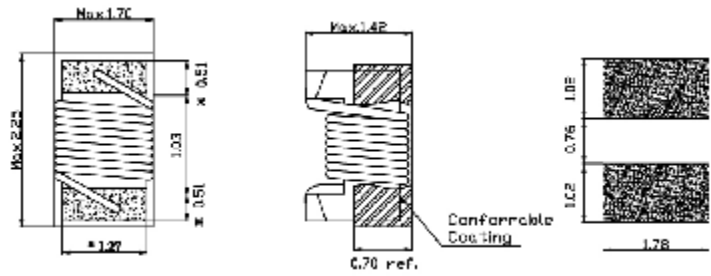
※ Inductance tolerance □: G = ±2 %, J = ±5 %, K = ±10 %

※ Specifications other than the above will be furnished upon request.



WIRE WOUND CHIP INDUCTORS

Construction & Dimensions: mm



CCFH 0805 C SERIES ELECTRICAL CHARACTERISTIC <Pb-Free> (H5000168)

CEC. P/N	Inductance		Test Freq.	Q	Test Freq.	S.R.F.	DCR	IDC
	L (nH)	Tolerance	(MHz)	Min.	(MHz)	(MHz) Min.	(Ω) max.	(mA) max.
CCFH 0805 C 2N7 □	2.7	J, K	250	80	1500	7900	0.06	800
CCFH 0805 C 3N0 □	3	J, K	250	65	1500	7900	0.06	800
CCFH 0805 C 3N3 □	3.3	J, K	250	50	1500	7900	0.10	600
CCFH 0805 C 5N6 □	5.6	J, K	250	65	1000	5500	0.08	600
CCFH 0805 C 6N8 □	6.8	J, K	250	50	1000	5500	0.11	600
CCFH 0805 C 7N5 □	7.5	J, K	250	50	1000	4500	0.14	600
CCFH 0805 C 8N2 □	8.2	G, J, K	250	50	1000	4700	0.12	600
CCFH 0805 C 10N □	10	G, J, K	250	60	500	4200	0.10	600
CCFH 0805 C 12N □	12	G, J, K	250	50	500	4000	0.15	600
CCFH 0805 C 15N □	15	G, J, K	250	50	500	3400	0.17	600
CCFH 0805 C 18N □	18	G, J, K	250	50	500	3300	0.20	600
CCFH 0805 C 22N □	22	G, J, K	250	55	500	2600	0.22	500
CCFH 0805 C 24N □	24	G, J, K	250	50	500	2000	0.22	500
CCFH 0805 C 27N □	27	G, J, K	250	55	500	2500	0.25	500
CCFH 0805 C 33N □	33	G, J, K	250	60	500	2050	0.27	500
CCFH 0805 C 36N □	36	G, J, K	250	55	500	1700	0.27	500
CCFH 0805 C 39N □	39	G, J, K	250	60	500	2000	0.29	500
CCFH 0805 C 43N □	43	G, J, K	250	60	500	1650	0.34	500
CCFH 0805 C 47N □	47	G, J, K	200	60	500	1650	0.31	500
CCFH 0805 C 56N □	56	G, J, K	200	60	500	1550	0.34	500
CCFH 0805 C 68N □	68	G, J, K	200	60	500	1450	0.38	500
CCFH 0805 C 82N □	82	G, J, K	150	65	500	1300	0.42	400
CCFH 0805 C 91N □	91	G, J, K	150	65	500	1200	0.48	400
CCFH 0805 C R10 □	100	G, J, K	150	65	500	1200	0.46	400
CCFH 0805 C R11 □	110	G, J, K	150	50	250	1000	0.48	400
CCFH 0805 C R12 □	120	G, J, K	150	50	250	1100	0.51	400
CCFH 0805 C R15 □	150	G, J, K	100	50	250	920	0.56	400
CCFH 0805 C R18 □	180	G, J, K	100	50	250	870	0.64	400
CCFH 0805 C R22 □	220	G, J, K	100	50	250	850	0.70	400
CCFH 0805 C R24 □	240	G, J, K	100	44	250	690	1.00	350
CCFH 0805 C R27 □	270	G, J, K	100	48	250	650	1.00	350
CCFH 0805 C R33 □	330	G, J, K	100	48	250	600	1.40	310
CCFH 0805 C R39 □	390	G, J, K	100	48	250	560	1.50	290
CCFH 0805 C R47 □	470	J, K	50	33	100	375	1.76	250
CCFH 0805 C R56 □	560	J, K	25	23	50	340	1.90	230
CCFH 0805 C R68 □	680	J, K	25	23	50	188	2.20	190
CCFH 0805 C R82 □	820	J, K	25	23	50	215	2.35	180
CCFH 0805 C 1R0 □	1000	J, K	25	23	50	282	6.90	92

* Testing instrument and conditions

DCR : HP 34420A or equivalent

Inductance & Q : HP 4287A & HP16193A or equivalent

S.R.F. : HP 8720ES or equivalent

IDC : Based on a 20°C maximum temperature rise.

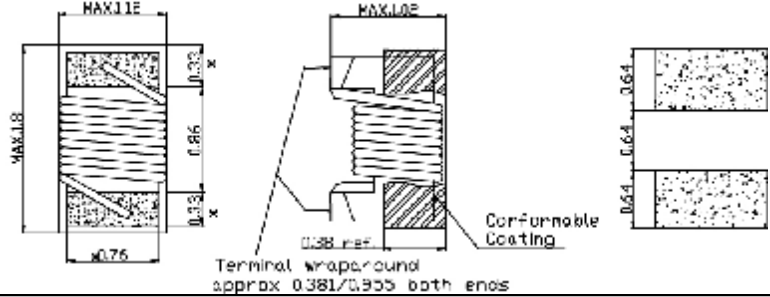
※ Inductance tolerance □: G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$

※ Specifications other than the above will be furnished upon request.



WIRE WOUND CHIP INDUCTORS

Construction & Dimensions: mm



CCFH 0603 C SERIES ELECTRICAL CHARACTERISTIC <Pb-Free> (H5000202)

CEC P/N	Inductance		Q min.	Test Freq. (MHz)	S.R.F. (MHz) min.	DCR (Ω) max.	IDC (mA) max.
	L(nH)	Tolerance					
CCFH 0603 C 1N6 □	1.6	Y, J, K	24	250	12500	0.030	700
CCFH 0603 C 1N8 □	1.8	Y, J, K	16	250	12500	0.045	700
CCFH 0603 C 3N3 □	3.3	Y, J, K	25	250	10000	0.050	700
CCFH 0603 C 3N6 □	3.6	Y, J, K	22	250	5900	0.063	700
CCFH 0603 C 3N9 □	3.9	Y, J, K	22	250	6900	0.080	700
CCFH 0603 C 4N3 □	4.3	Y, J, K	22	250	5900	0.063	700
CCFH 0603 C 4N7 □	4.7	Y, J, K	20	250	5800	0.130	700
CCFH 0603 C 5N1 □	5.1	Y, J, K	20	250	5700	0.140	700
CCFH 0603 C 6N8 □	6.8	G,Y,J,K	27	250	5800	0.110	700
CCFH 0603 C 7N5 □	7.5	G,Y,J,K	28	250	4800	0.106	700
CCFH 0603 C 8N7 □	8.7	G,Y,J,K	28	250	4600	0.109	700
CCFH 0603 C 9N5 □	9.5	G,Y,J,K	28	250	5400	0.135	700
CCFH 0603 C 10N □	10	G,Y,J,K	31	250	4800	0.130	700
CCFH 0603 C 11N □	11	G,Y,J,K	33	250	4000	0.107	700
CCFH 0603 C 12N □	12	G,Y,J,K	35	250	4000	0.130	700
CCFH 0603 C 15N □	15	G,Y,J,K	35	250	4000	0.170	700
CCFH 0603 C 16N □	16	G,Y,J,K	34	250	3300	0.134	700
CCFH 0603 C 18N □	18	G,Y,J,K	35	250	3100	0.170	700
CCFH 0603 C 22N □	22	G,Y,J,K	38	250	3000	0.190	700
CCFH 0603 C 24N □	24	G,Y,J,K	37	250	2650	0.190	700
CCFH 0603 C 27N □	27	G,Y,J,K	40	250	2800	0.220	600
CCFH 0603 C 30N □	30	G,Y,J,K	37	250	2250	0.187	600
CCFH 0603 C 33N □	33	G,Y,J,K	38	250	2300	0.260	600
CCFH 0603 C 36N □	36	G,Y,J,K	38	250	2080	0.250	600
CCFH 0603 C 39N □	39	G,Y,J,K	40	250	2200	0.250	600
CCFH 0603 C 43N □	43	G,Y,J,K	39	250	2000	0.280	600
CCFH 0603 C 47N □	47	G,Y,J,K	38	200	2000	0.280	600
CCFH 0603 C 56N □	56	G,Y,J,K	38	200	1900	0.340	600
CCFH 0603 C 68N □	68	G,Y,J,K	37	200	1700	0.340	600
CCFH 0603 C 72N □	72	G,Y,J,K	34	150	1700	0.490	400
CCFH 0603 C 82N □	82	G,Y,J,K	34	150	1700	0.540	400
CCFH 0603 C R10 □	100	G,Y,J,K	34	150	1400	0.580	400
CCFH 0603 C R11 □	110	G,Y,J,K	32	150	1350	0.610	300
CCFH 0603 C R12 □	120	G,Y,J,K	32	150	1300	0.720	300
CCFH 0603 C R15 □	150	G,Y,J,K	28	150	990	0.920	280
CCFH 0603 C R18 □	180	G,Y,J,K	25	100	990	1.250	240
CCFH 0603 C R22 □	220	G,Y,J,K	25	100	900	2.100	200
CCFH 0603 C R27 □	270	G,Y,J,K	24	100	900	2.300	170
CCFH 0603 C R33 □	330	G,Y,J,K H,G,Y,J,K	25	100	900	3.630	170
CCFH 0603 C R39 □	390	X,G,Y,J,K	25	100	700	3.700	130

* Testing instrument and conditions

DCR : HP 34420A or equivalent

Inductance & Q : HP 4287A & HP16193A or equivalent

S.R.F. : HP 8720ES or equivalent

IDC : Based on a 20°C maximum temperature rise.

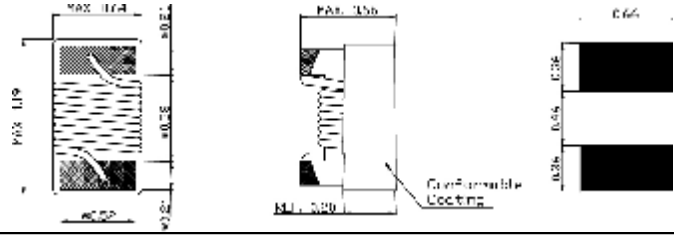
※ Inductance tolerance □: G = ±2 %, J = ±5 %, K = ±10 %

※ Specifications other than the above will be furnished upon request.



WIRE WOUND CHIP INDUCTORS

Construction & Dimensions: mm



HCFT 0402 C SERIES ELECTRICAL CHARACTERISTIC (H5000204)

CEC P/N	INDUCTANCE		Q min.	Test Freq. (MHz)	S.R.F. (GHz) min.	DCR (Ω) max.	IDC (mA) max.
	L(nH)	Tolerance					
HCFT 0402 C 1N0 □	1.0	J, K	16	250	12.70	0.045	1360
HCFT 0402 C 1N9 □	1.9	J, K	16	250	11.30	0.07	1040
HCFT 0402 C 2N0 □	2.0	J, K	16	250	11.10	0.07	1040
HCFT 0402 C 2N2 □	2.2	J, K	19	250	10.80	0.07	960
HCFT 0402 C 2N4 □	2.4	J, K	15	250	10.50	0.068	790
HCFT 0402 C 2N7 □	2.7	J, K	16	250	10.40	0.12	640
HCFT 0402 C 3N3 □	3.3	J, K	19	250	7.00	0.066	840
HCFT 0402 C 3N6 □	3.6	J, K	19	250	6.80	0.066	840
HCFT 0402 C 3N9 □	3.9	J, K	19	250	6.00	0.066	840
HCFT 0402 C 4N3 □	4.3	J, K	18	250	6.00	0.091	700
HCFT 0402 C 4N7 □	4.7	J, K	15	250	4.77	0.13	640
HCFT 0402 C 5N1 □	5.1	J, K	20	250	4.80	0.083	800
HCFT 0402 C 5N6 □	5.6	J, K	20	250	4.80	0.083	760
HCFT 0402 C 6N2 □	6.2	J, K	20	250	4.80	0.083	760
HCFT 0402 C 6N8 □	6.8	J, K	20	250	4.80	0.083	680
HCFT 0402 C 7N5 □	7.5	G, J, K	22	250	4.80	0.1	680
HCFT 0402 C 8N2 □	8.2	G, J, K	22	250	4.40	0.1	680
HCFT 0402 C 8N7 □	8.7	G, J, K	18	250	4.10	0.2	480
HCFT 0402 C 9N0 □	9.0	G, J, K	22	250	4.16	0.1	680
HCFT 0402 C 9N5 □	9.5	G, J, K	18	250	4.00	0.2	480
HCFT 0402 C 10N □	10.0	G, J, K	21	250	3.90	0.2	480
HCFT 0402 C 11N □	11.0	G, J, K	24	250	3.68	0.12	640
HCFT 0402 C 12N □	12.0	G, J, K	24	250	3.60	0.12	640
HCFT 0402 C 13N □	13.0	G, J, K	24	250	3.45	0.21	440
HCFT 0402 C 15N □	15.0	G, J, K	24	250	3.28	0.17	560
HCFT 0402 C 16N □	16.0	G, J, K	24	250	3.10	0.22	560
HCFT 0402 C 18N □	18.0	G, J, K	24	250	3.10	0.23	420
HCFT 0402 C 19N □	19.0	G, J, K	24	250	3.04	0.2	480
HCFT 0402 C 20N □	20.0	G, J, K	25	250	3.00	0.25	420
HCFT 0402 C 22N □	22.0	G, J, K	25	250	2.80	0.3	400
HCFT 0402 C 23N □	23.0	G, J, K	22	250	2.72	0.3	400
HCFT 0402 C 24N □	24.0	G, J, K	25	250	2.70	0.3	400
HCFT 0402 C 27N □	27.0	G, J, K	24	250	2.48	0.3	400
HCFT 0402 C 30N □	30.0	G, J, K	25	250	2.35	0.3	400
HCFT 0402 C 33N □	33.0	G, J, K	24	250	2.35	0.3	400
HCFT 0402 C 36N □	36.0	G, J, K	24	250	2.32	0.44	320
HCFT 0402 C 39N □	39.0	G, J, K	25	250	2.10	0.55	200
HCFT 0402 C 40N □	40.0	G, J, K	24	250	2.24	0.44	320
HCFT 0402 C 43N □	43.0	G, J, K	25	250	2.03	0.81	100
HCFT 0402 C 47N □	47.0	G, J, K	20	250	2.10	0.83	150
HCFT 0402 C 51N □	51.0	G, J, K	25	250	1.75	0.82	100
HCFT 0402 C 56N □	56.0	G, J, K	22	250	1.76	0.97	100
HCFT 0402 C 68N □	68.0	G, J, K	22	250	1.62	1.12	100

* Testing instrument and conditions

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