



## MULTILAYER FERRITE CHIP INDUCTORS CKFI SERIES

### 叠层铁氧体电感 CKFI 系列

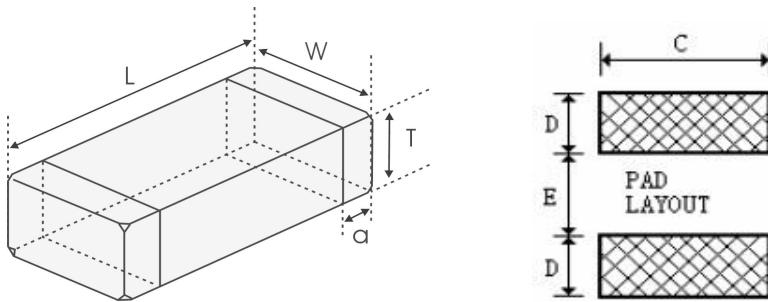
#### ● FEATURES 特性

1. Monolithic structure for high reliability compact size inductor possible.  
采用单片结构，可靠性高，电感尺寸小。
2. No cross coupling due to magnetic shield.  
电磁屏蔽，无交叉耦合。
3. Perfect shape for mounting with no directionality.  
无方向性安装的完美形状。
4. Excellent solderability and high heat resistance for either wave flow or reflow soldering.  
可焊性好，耐热性高，适用于波峰焊或回流焊。

#### ● APPLICATIONS 用途

Prevention of electromagnetic interference to signals on the secondary side of electronic equipemet.  
防止对电子装备二次侧信号的电磁干扰。

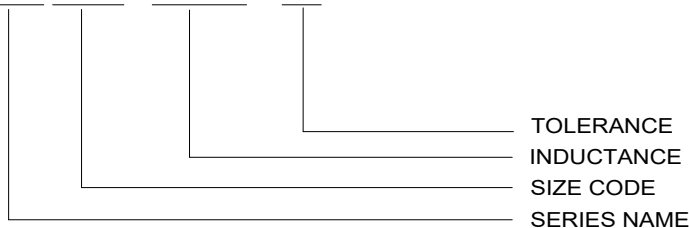
#### ● SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE	L	W	T	a	C	D	E
0402	1.0±0.15	0.5±0.15	0.5±0.15	0.25±0.1	0.6	0.5	0.4
0603	1.6±0.20	0.8±0.20	0.8±0.20	0.3±0.2	1.0	0.6	0.8
0805	2.0±0.20	1.2±0.20	0.9±0.20	0.5±0.3	1.4	0.8	1.0
1206	3.2±0.20	1.6±0.20	0.9±0.20	0.5±0.3	1.8	0.8	2.0

#### ● PART NUMBERING SYSTEM 品名系统

CKFI 0402 - 680nH / K



#### ● Remarks 备注

- (1) Operating Temperature Ranges: -40~85℃.  
工作温度范围:-40~85℃。
- (2) Rated Current: DC current at which the inductance drops approximate 10% from its value without current.  
额定电流:在该直流电流下，电感从其无电流值下降约 10%:



● SPECIFICATION TABLE 规格特性表  
CKFI0402 Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR ( $\Omega$ )Max	SRF (MHz) Min	Rated Current (mA)Max
CKFI0402-47nH/K	47 $\pm$ 10%	50	10	0.45	220	25
CKFI0402-56nH/K	56 $\pm$ 10%	50	10	0.45	210	25
CKFI0402-68nH/K	68 $\pm$ 10%	50	10	0.45	210	25
CKFI0402-82nH/K	82 $\pm$ 10%	50	10	0.45	200	25
CKFI0402-0.10uH/K	100 $\pm$ 10%	25	15	0.70	200	25
CKFI0402-0.12uH/K	120 $\pm$ 10%	25	15	0.70	165	25
CKFI0402-0.15uH/K	150 $\pm$ 10%	25	15	0.80	140	25
CKFI0402-0.18uH/K	180 $\pm$ 10%	25	15	0.80	120	25
CKFI0402-0.22uH/K	220 $\pm$ 10%	25	15	1.00	110	25
CKFI0402-0.27uH/K	270 $\pm$ 10%	25	15	1.20	95	25
CKFI0402-0.33uH/K	330 $\pm$ 10%	25	15	1.20	85	25
CKFI0402-0.39uH/K	390 $\pm$ 10%	25	15	1.30	70	20
CKFI0402-0.47uH/K	470 $\pm$ 10%	25	15	1.50	68	20
CKFI0402-0.56uH/K	560 $\pm$ 10%	25	15	2.00	55	20
CKFI0402-0.68uH/K	680 $\pm$ 10%	25	15	2.30	50	20
CKFI0402-0.82uH/K	820 $\pm$ 10%	25	15	3.00	45	18
CKFI0402-1.0uH/K	1000 $\pm$ 10%	10	20	0.90	40	25



Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR ( $\Omega$ )Max	SRF (MHz) Min	Rated Current (mA)Max
CKFI0603-47nH/K	0.047 $\pm$ 10%	50	15	0.20	260	50
CKFI0603-56nH/K	0.056 $\pm$ 10%	50	15	0.20	260	50
CKFI0603-68nH/K	0.068 $\pm$ 10%	50	15	0.20	250	50
CKFI0603-82nH/K	0.082 $\pm$ 10%	50	15	0.20	245	50
CKFI0603-100nH/K	0.10 $\pm$ 10%	25	20	0.25	240	50
CKFI0603-120nH/K	0.12 $\pm$ 10%	25	20	0.30	205	50
CKFI0603-150nH/K	0.15 $\pm$ 10%	25	20	0.30	180	50
CKFI0603-180nH/K	0.18 $\pm$ 10%	25	20	0.30	165	50
CKFI0603-220nH/K	0.22 $\pm$ 10%	25	20	0.40	150	50
CKFI0603-270nH/K	0.27 $\pm$ 10%	25	20	0.45	136	50
CKFI0603-330nH/K	0.33 $\pm$ 10%	25	20	0.50	125	50
CKFI0603-390nH/K	0.39 $\pm$ 10%	25	20	0.60	110	50
CKFI0603-470nH/K	0.47 $\pm$ 10%	25	20	0.70	105	50
CKFI0603-560nH/K	0.56 $\pm$ 10%	25	20	0.70	95	50
CKFI0603-680nH/K	0.68 $\pm$ 10%	25	20	0.90	90	50
CKFI0603-820nH/K	0.82 $\pm$ 10%	25	20	1.00	85	50
CKFI0603-1.0uH/K	1.0 $\pm$ 10%	10	25	0.50	75	25
CKFI0603-1.2uH/K	1.2 $\pm$ 10%	10	25	0.55	65	25
CKFI0603-1.5uH/K	1.5 $\pm$ 10%	10	25	0.70	60	25
CKFI0603-1.8uH/K	1.8 $\pm$ 10%	10	25	0.75	55	25
CKFI0603-2.2uH/K	2.2 $\pm$ 10%	10	25	0.80	50	25
CKFI0603-2.7uH/K	2.7 $\pm$ 10%	10	25	0.90	45	15
CKFI0603-3.3uH/K	3.3 $\pm$ 10%	10	25	1.00	40	15
CKFI0603-3.9uH/K	3.9 $\pm$ 10%	10	25	1.30	35	15
CKFI0603-4.7uH/K	4.7 $\pm$ 10%	10	25	1.50	33	15
CKFI0603-5.6uH/K	5.6 $\pm$ 10%	4	12	1.55	22	5
CKFI0603-6.8uH/K	6.8 $\pm$ 20%	4	12	1.55	20	5
CKFI0603-8.2uH/K	8.2 $\pm$ 20%	4	12	1.65	18	5
CKFI0603-10uH/K	10 $\pm$ 20%	2	20	1.75	17	3
CKFI0603-12uH/K	12 $\pm$ 20%	2	20	1.85	15	3



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SHENZHEN CENKER TECHNOLOGY GROUP CO., LTD.

**CKFI0805 Series**

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR ( $\Omega$ )Max	SRF (MHz) Min	Rated Current (mA)Max
CKFI0805-47nH/K	0.047 $\pm$ 10%	50	25	0.15	320	300
CKFI0805-56nH/K	0.056 $\pm$ 10%	50	25	0.15	320	300

CKFI0805-68nH/K	0.068±10%	50	25	0.20	280	300
CKFI0805-82nH/K	0.082±10%	50	25	0.20	280	300
CKFI0805-100nH/K	0.10±10%	25	20	0.20	235	250
CKFI0805-120nH/K	0.12±10%	25	20	0.25	220	250
CKFI0805-150nH/K	0.15±10%	25	20	0.25	200	250
CKFI0805-180nH/K	0.18±10%	25	20	0.30	185	250
CKFI0805-220nH/K	0.22±10%	25	20	0.30	170	250
CKFI0805-270nH/K	0.27±10%	25	20	0.40	150	250
CKFI0805-330nH/K	0.33±10%	25	20	0.40	145	250
CKFI0805-390nH/K	0.39±10%	25	25	0.50	135	200
CKFI0805-470nH/K	0.47±10%	25	25	0.50	125	200
CKFI0805-560nH/K	0.56±10%	25	25	0.60	115	150
CKFI0805-680nH/K	0.68±10%	25	25	0.65	105	150
CKFI0805-820nH/K	0.82±10%	25	25	0.70	100	150
CKFI0805-1.0uH/K	1.0±10%	10	35	0.40	75	50
CKFI0805-1.2uH/K	1.2±10%	10	35	0.40	65	50
CKFI0805-1.5uH/K	1.5±10%	10	35	0.40	60	50
CKFI0805-1.8uH/K	1.8±10%	10	35	0.40	55	50
CKFI0805-2.2uH/K	2.2±10%	10	35	0.60	50	50
CKFI0805-2.7uH/K	2.7±10%	10	35	0.60	45	50
CKFI0805-3.3uH/K	3.3±10%	10	35	0.60	41	50
CKFI0805-3.9uH/K	3.9±10%	10	35	0.80	38	50
CKFI0805-4.7uH/K	4.7±10%	10	35	0.90	35	30
CKFI0805-5.6uH/K	5.6±10%	4	30	1.00	32	15
CKFI0805-6.8uH/K	6.8±10%	4	30	1.05	29	15
CKFI0805-8.2uH/K	8.2±10%	4	30	1.05	26	15
CKFI0805-10uH/K	10±10%	2	30	1.15	24	15
CKFI0805-12uH/K	12±10%	2	30	1.15	22	15
CKFI0805-15uH/K	15±10%	1	25	1.15	19	5
CKFI0805-18uH/K	18±10%	1	25	1.20	18	5
CKFI0805-22uH/K	22±10%	1	25	1.20	16	5
CKFI0805-27uH/K	27±10%	1	25	1.50	16	5



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### CKFI1206 Series

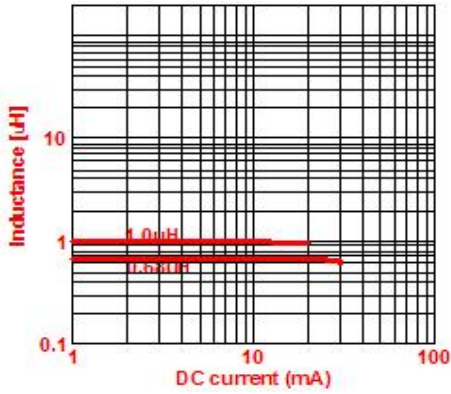
Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max
CKFI1206-47nH/K	0.047±10%	50	30	0.15	320	300
CKFI1206-56nH/K	0.056±10%	50	30	0.20	320	300
CKFI1206-68nH/K	0.068±10%	50	30	0.25	280	300
CKFI1206-82nH/K	0.082±10%	50	30	0.25	280	300
CKFI1206-100nH/K	0.10±10%	25	25	0.25	235	250
CKFI1206-120nH/K	0.12±10%	25	25	0.25	220	250
CKFI1206-150nH/K	0.15±10%	25	25	0.25	200	250
CKFI1206-180nH/K	0.18±10%	25	25	0.30	185	250
CKFI1206-220nH/K	0.22±10%	25	25	0.30	170	250

CKFI1206-270nH/K	0.27±10%	25	25	0.30	150	250
CKFI1206-330nH/K	0.33±10%	25	25	0.30	145	250
CKFI1206-390nH/K	0.39±10%	25	30	0.50	135	200
CKFI1206-470nH/K	0.47±10%	25	30	0.50	125	200
CKFI1206-560nH/K	0.56±10%	25	30	0.50	115	150
CKFI1206-680nH/K	0.68±10%	25	30	0.50	105	150
CKFI1206-820nH/K	0.82±10%	25	30	0.60	100	150
CKFI1206-1.0uH/K	1.0±10%	10	35	0.30	75	100
CKFI1206-1.2uH/K	1.2±10%	10	35	0.40	65	100
CKFI1206-1.5uH/K	1.5±10%	10	35	0.40	60	50
CKFI1206-1.8uH/K	1.8±10%	10	35	0.40	55	50
CKFI1206-2.2uH/K	2.2±10%	10	35	0.50	50	50
CKFI1206-2.7uH/K	2.7±10%	10	35	0.50	45	50
CKFI1206-3.3uH/K	3.3±10%	10	35	0.50	41	50
CKFI1206-3.9uH/K	3.9±10%	10	35	0.60	38	50
CKFI1206-4.7uH/K	4.7±10%	10	35	0.65	35	25
CKFI1206-5.6uH/K	5.6±10%	4	35	0.80	32	25
CKFI1206-6.8uH/K	6.8±10%	4	35	0.80	29	25
CKFI1206-8.2uH/K	8.2±10%	4	35	0.80	26	25
CKFI1206-10uH/K	10±10%	2	35	0.80	24	25
CKFI1206-12uH/K	12±10%	2	35	0.90	22	15
CKFI1206-15uH/K	15±10%	1	30	1.00	19	5
CKFI1206-18uH/K	18±10%	1	30	1.00	18	5
CKFI1206-22uH/K	22±10%	1	30	1.20	16	5
CKFI1206-27uH/K	27±10%	1	30	1.20	14	5
CKFI1206-33uH/K	33±10%	1	30	1.30	13	5
CKFI1206-39uH/K	39±10%	1	30	1.30	13	5
CKFI1206-47uH/K	47±10%	1	30	1.60	12	5
CKFI1206-56uH/M	56±20%	1	30	1.80	12	5
CKFI1206-68uH/M	68±20%	1	30	2.00	11	5
CKFI1206-82uH/M	82±20%	1	30	2.40	11	5
CKFI1206-100uH/M	100±20%	1	30	3.00	8	5

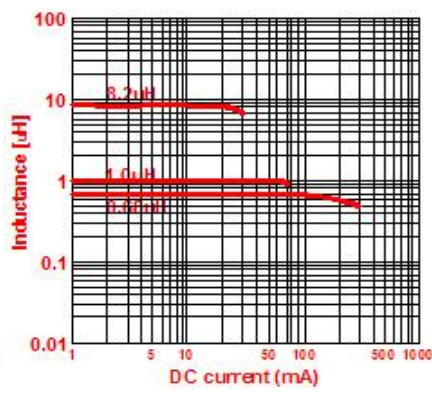


■ Characteristics Curve 特性曲线

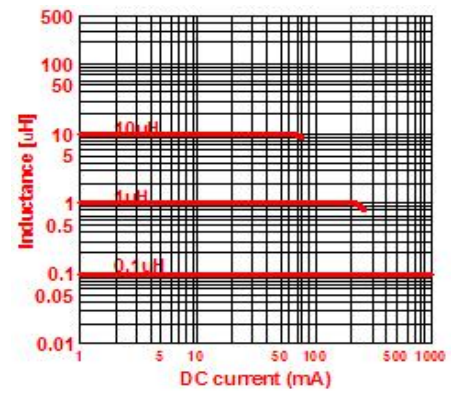
CKFI0402



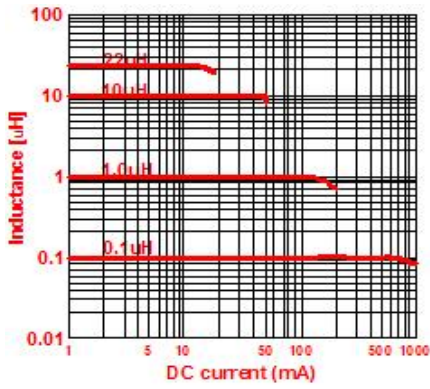
CKFI0603



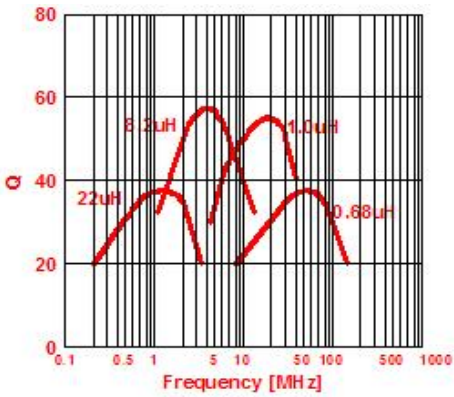
CKFI0805



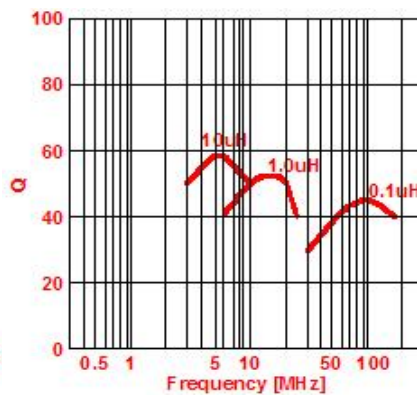
CKFI1206



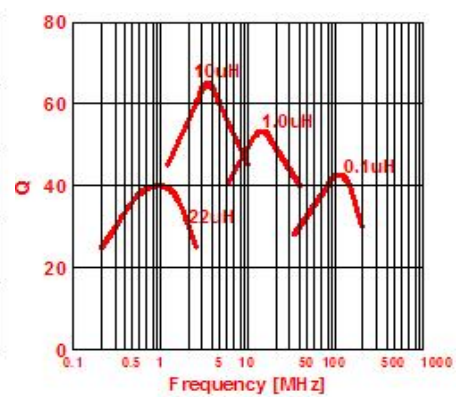
CKFI0603



CKFI0805



CKFI1206





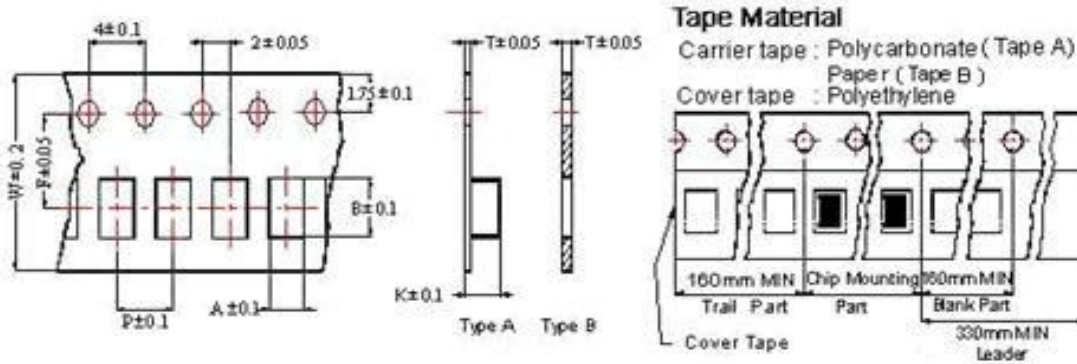
## ● PACKAGING SPECIFICATION 包装规格

### 1. Packaging -Cover Tape

The force for tearing off cover tape is 10 to 100 grams in the arrow direction.

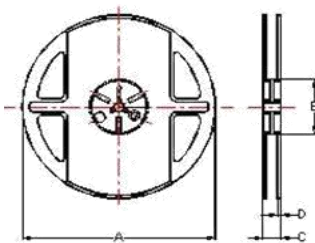


### 2. Tape Dimensions(Unit:mm)



Type	A	B	T	W	P	F	K	Tape Type
0402	0.62	1.12	0.60	8	2	3.5	/	B
0603	1.05	1.85	0.95	8	4	3.5	/	B
0805	1.50	2.30	0.97	8	4	3.5	/	B
1206	1.88	3.50	0.97	8	4	3.5	/	B

### 3. Reel Dimensions (Unit:mm)



A	B	C	D
178	60	12	1.5

### 4. Packaging Quantity

Type	Pcs/Reel
0402	10,000
0603	4,000
0805	4,000
1206	4,000