



● **FEATURES 特性**

1.表面贴装,小型、超薄电感器,大功率,高饱和,低电阻之特性.

The inductor designed as surface mounting , smallest and thinnest with high power , high saturation and low resistance

2.磁性胶水涂敷结构极大减少了噪声, 闭合磁路结构设计,漏磁少,抗EMI能力强.

Magnetic-resin shielded structure reduces buzz noise to ultra-low levels , Closed magnetic circuit structure reduces magnetic leakage flux , high performance of anti-EMI .

3.同等尺寸额定电流较传统电感高出30%以上.

Compared with the same size part , the rated current 30% higher than the traditional inductors .

4.工作频率范围广,可达5MHz以上. Wide range working frequency that reach more than 5MHz

5.RoHS , 无卤环保产品. RoHS ,Halogen-free environmental protection products



● **APPLICATIONS 用途**

1. LED Lighting LED 照明

2. Automotive systems 汽车产品

3. Notebooks,desktop computers,servers,graphic cards 笔记本电脑, 台式电脑, 服务器, 显卡

● **PART NUMBERING SYSTEM 品名系统**



● **STRUCTURAL DRAWING 结构图**



- ① Freeite core Ni-Zn Ferrite
- ② Winding wire Polyurethane-copper wire
- ③ Electrode External electrode
- ④ Epoxy resin containing ferrite powder



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



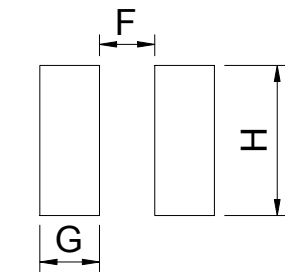
Fig 1



Fig 2



Fig 3



Recommended patterns

TYPE(型号)	A	B	C	D	E	F	G	H	Fig
CKCS201610	2.0±0.3	1.6±0.3	1.05 Max	0.6±0.2	0.77±0.2	0.6	0.8	1.8	1
CKCS252010	2.5±0.3	2.0±0.3	1.05 Max	0.8±0.3	0.9±0.3	0.6	1.1	2.0	1
CKCS252012	2.5±0.3	2.0±0.3	1.25 Max	0.8±0.3	0.9±0.3	0.6	1.1	2.0	1
CKCS3010	3.0±0.2	3.0±0.2	1.1 Max	1.2±0.3	0.9±0.3	1.1	1.0	2.7	3
CKCS3012	3.0±0.2	3.0±0.2	1.3 Max	1.2±0.3	0.9±0.3	1.1	1.0	2.7	3
CKCS3015	3.0±0.2	3.0±0.2	1.7 Max	1.2±0.3	0.9±0.3	1.1	1.0	2.7	3
CKCS4012	4.0±0.2	4.0±0.2	1.2 Max	1.6±0.3	1.2±0.3	1.4	1.3	3.7	3
CKCS4018	4.0±0.2	4.0±0.2	1.8 Max	1.6±0.3	1.2±0.3	1.4	1.3	3.7	3
CKCS4020	4.0±0.2	4.0±0.2	2.0 Max	1.6±0.3	1.2±0.3	1.4	1.3	3.7	3
CKCS4030	4.0±0.2	4.0±0.2	3.0 Max	1.3±0.3	1.35±0.3	1.2	1.40	3.7	3
CKCS5020	5.0±0.2	5.0±0.2	2.1 Max	1.4±0.3	1.8±0.3	1.2	1.9	4.2	2
CKCS5040	5.0±0.2	5.0±0.2	4.0 Max	1.6±0.3	1.7±0.3	1.4	1.8	4.2	3
CKCS6020	6.0±0.3	6.0±0.3	2.1 Max	2.3±0.3	1.85±0.3	2.4	1.8	5.7	2
CKCS6028	6.0±0.3	6.0±0.3	3.0 Max	2.3±0.3	1.85±0.3	2.4	1.8	5.7	2
CKCS6045	6.0±0.3	6.0±0.3	4.7 Max	2.3±0.3	1.85±0.3	2.4	1.8	5.7	2
CKCS8040	8.0±0.3	8.0±0.3	4.2 Max	3.8±0.3	2.1±0.3	3.6	2.2	7.5	2



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max.) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	Marker 印字
CKCS201610-0.47uH/N	0.47 \pm 30%	0.059	2.30	2.35	/
CKCS201610-0.68uH/N	0.68 \pm 30%	0.076	1.95	2.05	/
CKCS201610-1uH/N	1.0 \pm 30%	0.114	1.65	1.45	/
CKCS201610-1.5uH/N	1.5 \pm 30%	0.174	1.35	1.25	/
CKCS201610-2.2uH/M	2.2 \pm 20%	0.264	1.20	1.10	/
CKCS201610-3.3uH/M	3.3 \pm 20%	0.335	0.90	0.88	/
CKCS201610-4.7uH/M	4.7 \pm 20%	0.479	0.70	0.74	/
CKCS201610-6.8uH/M	6.8 \pm 20%	0.816	0.60	0.52	/
CKCS201610-10uH/M	10 \pm 20%	1.020	0.50	0.45	/

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max.) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	Marker 印字
CKCS252010-1.0uH/N	1.0 \pm 30%	0.108	1.85	1.65	A
CKCS252010-1.5uH/N	1.5 \pm 30%	0.182	1.80	1.30	B
CKCS252010-2.2uH/N	2.2 \pm 30%	0.209	1.20	1.20	C
CKCS252010-3.3uH/M	3.3 \pm 20%	0.328	1.05	0.90	D
CKCS252010-4.7uH/N	4.7 \pm 20%	0.563	0.95	0.70	E
CKCS252010-5.6uH/M	5.6 \pm 20%	0.563	0.80	0.73	F
CKCS252010-6.8uH/M	6.8 \pm 20%	0.896	0.78	0.59	G
CKCS252010-10uH/M	10 \pm 20%	1.092	0.65	0.50	H
CKCS252010-15uH/M	15 \pm 20%	1.885	0.46	0.36	I
CKCS252010-22uH/M	22 \pm 20%	2.400	0.45	0.30	J

Remark: 1. Inductance Tested at 1MHz, 0.25Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max.) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	Marker 印字
CKCS252012-0.47uH/N	0.47 \pm 30%	0.061	3.82	2.15	A
CKCS252012-0.68uH/N	0.68 \pm 30%	0.074	3.28	1.95	B
CKCS252012-1.0uH/N	1.0 \pm 30%	0.09	2.59	1.93	C
CKCS252012-1.2uH/N	1.2 \pm 30%	0.129	2.38	1.46	D
CKCS252012-1.5uH/N	1.5 \pm 30%	0.147	2.24	1.40	E
CKCS252012-2.2uH/N	2.2 \pm 30%	0.216	1.85	1.15	F
CKCS252012-3.3uH/M	3.3 \pm 20%	0.264	1.61	1.04	G
CKCS252012-4.7uH/M	4.7 \pm 20%	0.377	1.12	0.84	H
CKCS252012-5.6uH/M	5.6 \pm 20%	0.538	1.11	0.73	I
CKCS252012-6.8uH/M	6.8 \pm 20%	0.581	0.98	0.69	J
CKCS252012-8.2uH/M	8.2 \pm 20%	0.658	0.98	0.65	N
CKCS252012-10uH/M	10 \pm 20%	0.69	0.79	0.62	K
CKCS252012-12uH/M	12 \pm 20%	1.075	0.78	0.51	O
CKCS252012-15uH/M	15 \pm 20%	1.591	0.68	0.42	L
CKCS252012-22uH/M	22 \pm 20%	1.976	0.53	0.38	M

Remark: 1. Inductance Tested at 1MHz, 0.25Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 25°C ambient.
4. Operating Temperature : -25°C ~ +125°C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS3010-1.0uH/N	1.0 \pm 30%	0.065	1.40	1.45	180
CKCS3010-1.5uH/N	1.5 \pm 30%	0.080	1.27	1.30	120
CKCS3010-2.2uH/N	2.2 \pm 30%	0.110	1.15	1.09	100
CKCS3010-3.3uH/M	3.3 \pm 20%	0.145	0.97	0.96	74
CKCS3010-4.7uH/M	4.7 \pm 20%	0.225	0.75	0.77	59
CKCS3010-6.8uH/M	6.8 \pm 20%	0.305	0.55	0.66	42
CKCS3010-10uH/M	10 \pm 20%	0.400	0.55	0.58	39
CKCS3010-15uH/M	15 \pm 20%	0.610	0.42	0.47	30
CKCS3010-22uH/M	22 \pm 20%	0.930	0.35	0.38	28
CKCS3010-33uH/M	33 \pm 20%	1.550	0.29	0.30	18
CKCS3010-47uH/M	47 \pm 20%	1.950	0.22	0.26	18

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS3012-1.0uH/N	1.0 \pm 30%	0.040	1.87	2.20	120
CKCS3012-1.5uH/N	1.5 \pm 30%	0.045	1.62	2.01	110
CKCS3012-2.2uH/N	2.2 \pm 30%	0.075	1.20	1.55	84
CKCS3012-3.3uH/M	3.3 \pm 20%	0.100	1.05	1.36	64
CKCS3012-4.7uH/M	4.7 \pm 20%	0.120	0.90	1.24	61
CKCS3012-6.8uH/M	6.8 \pm 20%	0.190	0.75	0.98	61
CKCS3012-10uH/M	10 \pm 20%	0.265	0.60	0.83	42
CKCS3012-15uH/M	15 \pm 20%	0.360	0.45	0.71	27
CKCS3012-22uH/M	22 \pm 20%	0.645	0.42	0.53	23
CKCS3012-33uH/M	33 \pm 20%	0.875	0.36	0.46	18
CKCS3012-47uH/M	47 \pm 20%	1.450	0.27	0.35	14
CKCS3012-68uH/M	68 \pm 20%	1.670	0.24	0.33	12

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS3015-1.0uH/N	1.0 \pm 30%	0.039	2.32	2.35	150
CKCS3015-1.2uH/N	1.2 \pm 30%	0.040	2.21	1.95	110
CKCS3015-1.5uH/N	1.5 \pm 30%	0.050	2.00	1.70	100
CKCS3015-1.8uH/N	1.8 \pm 30%	0.050	1.75	1.70	92
CKCS3015-2.2uH/N	2.2 \pm 30%	0.060	1.60	1.60	86
CKCS3015-3.3uH/M	3.3 \pm 20%	0.080	1.32	1.36	68
CKCS3015-4.7uH/M	4.7 \pm 20%	0.125	1.10	1.09	46
CKCS3015-6.8uH/M	6.8 \pm 20%	0.200	0.85	0.85	39
CKCS3015-10uH/M	10 \pm 20%	0.250	0.72	0.77	41
CKCS3015-12uH/M	12 \pm 20%	0.320	0.70	0.68	32
CKCS3015-15uH/M	15 \pm 20%	0.350	0.66	0.65	30
CKCS3015-18uH/M	18 \pm 20%	0.430	0.56	0.59	23
CKCS3015-22uH/M	22 \pm 20%	0.460	0.52	0.57	23
CKCS3015-33uH/M	33 \pm 20%	0.820	0.44	0.43	20
CKCS3015-47uH/M	47 \pm 20%	1.250	0.35	0.35	14

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS4012-0.82uH/N	0.82 \pm 30%	0.050	3.02	1.65	150
CKCS4012-1.0uH/N	1.0 \pm 30%	0.050	2.61	1.65	120
CKCS4012-1.5uH/N	1.5 \pm 30%	0.065	2.10	1.46	90
CKCS4012-1.8uH/N	1.8 \pm 30%	0.080	2.12	1.32	88
CKCS4012-2.2uH/N	2.2 \pm 30%	0.080	1.76	1.32	74
CKCS4012-3.3uH/N	3.3 \pm 30%	0.110	1.72	1.12	60
CKCS4012-4.7uH/N	4.7 \pm 30%	0.125	1.15	1.05	50
CKCS4012-6.8uH/M	6.8 \pm 20%	0.198	0.85	0.84	40
CKCS4012-10uH/M	10 \pm 20%	0.265	0.80	0.77	33
CKCS4012-12uH/M	12 \pm 20%	0.290	0.66	0.70	32
CKCS4012-15uH/M	15 \pm 20%	0.340	0.56	0.64	25
CKCS4012-22uH/M	22 \pm 20%	0.587	0.46	0.49	20
CKCS4012-33uH/M	33 \pm 20%	0.810	0.42	0.42	17
CKCS4012-47uH/M	47 \pm 20%	1.100	0.35	0.37	12
CKCS4012-68uH/M	68 \pm 20%	1.950	0.38	0.27	11
CKCS4012-82uH/M	82 \pm 20%	2.140	0.28	0.26	11
CKCS4012-100uH/M	100 \pm 20%	2.210	0.25	0.25	9.4

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS4018-1.0uH/N	1.0 \pm 30%	0.025	4.20	2.00	80
CKCS4018-1.5uH/N	1.5 \pm 30%	0.030	3.35	1.80	65
CKCS4018-2.2uH/M	2.2 \pm 20%	0.045	2.70	1.65	52
CKCS4018-3.3uH/M	3.3 \pm 20%	0.070	2.45	1.23	44
CKCS4018-4.7uH/M	4.7 \pm 20%	0.090	1.70	1.20	34
CKCS4018-6.8uH/M	6.8 \pm 20%	0.110	1.45	1.06	29
CKCS4018-10uH/M	10 \pm 20%	0.180	1.30	0.84	24
CKCS4018-15uH/M	15 \pm 20%	0.250	0.94	0.65	19
CKCS4018-22uH/M	22 \pm 20%	0.360	0.80	0.59	16
CKCS4018-33uH/M	33 \pm 20%	0.530	0.56	0.49	12
CKCS4018-47uH/M	47 \pm 20%	0.650	0.57	0.42	10
CKCS4018-68uH/M	68 \pm 20%	1.000	0.47	0.32	8.3
CKCS4018-100uH/M	100 \pm 20%	1.750	0.40	0.25	6.5
CKCS4018-150uH/M	150 \pm 20%	2.500	0.31	0.22	5.5
CKCS4018-220uH/M	220 \pm 20%	4.000	0.27	0.17	4.0
CKCS4018-330uH/M	330 \pm 20%	6.500	0.20	0.14	2.2

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS4020-1.0uH/N	1.0 \pm 30%	0.029	4.78	2.15	75
CKCS4020-1.2uH/N	1.2 \pm 30%	0.029	5.10	2.15	72
CKCS4020-1.5uH/N	1.5 \pm 30%	0.035	4.45	1.98	71
CKCS4020-2.2uH/N	2.2 \pm 30%	0.040	3.40	1.85	49
CKCS4020-3.3uH/M	3.3 \pm 20%	0.070	3.20	1.40	44
CKCS4020-4.7uH/M	4.7 \pm 20%	0.075	2.35	1.34	42
CKCS4020-5.6uH/M	5.6 \pm 20%	0.090	2.20	1.22	30
CKCS4020-6.8uH/M	6.8 \pm 20%	0.125	2.00	1.04	33
CKCS4020-8.2uH/M	8.2 \pm 20%	0.125	1.75	1.04	27
CKCS4020-10uH/M	10 \pm 20%	0.165	1.60	0.90	26
CKCS4020-15uH/M	15 \pm 20%	0.230	1.35	0.77	24
CKCS4020-22uH/M	22 \pm 20%	0.350	1.05	0.62	15
CKCS4020-33uH/M	33 \pm 20%	0.550	0.85	0.49	11
CKCS4020-47uH/M	47 \pm 20%	0.710	0.74	0.44	10
CKCS4020-56uH/M	56 \pm 20%	0.800	0.66	0.41	10
CKCS4020-68uH/M	68 \pm 20%	1.060	0.61	0.36	7.7
CKCS4020-82uH/M	82 \pm 20%	1.170	0.50	0.34	7.2
CKCS4020-100uH/M	100 \pm 20%	1.550	0.48	0.31	6.3

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}C$) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS4030-1uH/N	1.0 \pm 30%	0.016	5.26	4.14	70
CKCS4030-1.5uH/N	1.5 \pm 30%	0.020	4.84	3.34	62
CKCS4030-2.2uH/N	2.2 \pm 30%	0.030	4.40	2.95	52
CKCS4030-3.3uH/M	3.3 \pm 20%	0.040	3.30	2.40	38
CKCS4030-4.7uH/M	4.7 \pm 20%	0.060	2.90	2.00	31
CKCS4030-6.8uH/M	6.8 \pm 20%	0.090	2.75	1.60	24
CKCS4030-10uH/M	10 \pm 20%	0.100	1.95	1.50	21
CKCS4030-15uH/M	15 \pm 20%	0.190	1.65	1.11	16
CKCS4030-22uH/M	22 \pm 20%	0.225	1.30	1.00	10
CKCS4030-33uH/M	33 \pm 20%	0.330	1.10	0.84	10
CKCS4030-47uH/M	47 \pm 20%	0.445	0.95	0.72	8.4
CKCS4030-68uH/M	68 \pm 20%	0.868	0.72	0.52	7
CKCS4030-100uH/M	100 \pm 20%	1.150	0.60	0.45	5.6
CKCS4030-150uH/M	150 \pm 20%	1.800	0.50	0.3	4
CKCS4030-220uH/M	220 \pm 20%	2.500	0.40	0.35	4.2
CKCS4030-330uH/M	330 \pm 20%	4.000	0.30	0.25	6.8
CKCS4030-470uH/M	470 \pm 20%	7.200	0.30	0.2	2
CKCS4030-680uH/M	680 \pm 20%	7.580	0.19	0.14	1.2

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS5020-1.0uH/N	1.0 \pm 30%	0.020	4.10	3.80	114
CKCS5020-1.5uH/N	1.5 \pm 30%	0.030	4.10	3.20	68
CKCS5020-2.2uH/N	2.2 \pm 30%	0.040	3.20	2.70	57
CKCS5020-3.3uH/N	3.3 \pm 30%	0.050	2.55	2.30	46
CKCS5020-4.7uH/M	4.7 \pm 20%	0.057	2.50	2.20	37
CKCS5020-6.8uH/M	6.8 \pm 20%	0.083	2.05	1.80	30
CKCS5020-8.2uH/M	8.2 \pm 20%	0.098	1.85	1.65	26
CKCS5020-10uH/M	10 \pm 20%	0.120	1.70	1.55	24
CKCS5020-15uH/M	15 \pm 20%	0.165	1.35	1.25	20
CKCS5020-18uH/M	18 \pm 20%	0.200	1.25	1.15	16
CKCS5020-22uH/M	22 \pm 20%	0.250	1.15	1.10	14
CKCS5020-33uH/M	33 \pm 20%	0.400	0.92	0.90	10
CKCS5020-47uH/M	47 \pm 20%	0.580	0.77	0.75	7
CKCS5020-68uH/M	68 \pm 20%	0.740	0.65	0.64	6
CKCS5020-100uH/M	100 \pm 20%	1.100	0.53	0.40	6

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ C$) from 25°C ambient.

4. Operating Temperature : -25°C ~ +125°C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS5040-1.0uH/N	1.0 \pm 30%	0.012	7.35	4.90	117
CKCS5040-1.2uH/N	1.2 \pm 30%	0.016	6.50	4.15	110
CKCS5040-1.5uH/N	1.5 \pm 30%	0.018	6.30	4.00	86
CKCS5040-2.2uH/N	2.2 \pm 30%	0.019	4.90	3.80	50
CKCS5040-3.3uH/N	3.3 \pm 30%	0.024	3.95	3.40	32
CKCS5040-4.7uH/M	4.7 \pm 20%	0.032	3.50	3.00	28
CKCS5040-5.6uH/M	5.6 \pm 20%	0.035	3.00	2.80	27
CKCS5040-6.8uH/M	6.8 \pm 20%	0.043	2.90	2.50	21
CKCS5040-10uH/M	10 \pm 20%	0.064	2.35	2.10	18
CKCS5040-15uH/M	15 \pm 20%	0.086	2.00	2.00	13
CKCS5040-22uH/M	22 \pm 20%	0.129	1.60	1.50	11
CKCS5040-33uH/M	33 \pm 20%	0.188	1.30	1.20	9.1
CKCS5040-47uH/M	47 \pm 20%	0.272	1.10	1.00	6.7
CKCS5040-68uH/M	68 \pm 20%	0.400	0.90	0.80	5.7
CKCS5040-100uH/M	100 \pm 20%	0.560	0.75	0.70	4.7
CKCS5040-150uH/M	150 \pm 20%	0.750	0.65	0.60	5
CKCS5040-220uH/M	220 \pm 20%	1.280	0.40	0.38	3
CKCS5040-1mH/M	1000 \pm 20%	6.200	0.25	0.25	2
CKCS5040-2.2mH/M	2200 \pm 20%	13.000	0.10	0.10	2

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}C$) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS6020-0.68uH/N	0.68 \pm 30%	0.017	6.55	3.80	115
CKCS6020-0.82uH/N	0.82 \pm 30%	0.017	5.30	3.80	110
CKCS6020-1.0uH/N	1.0 \pm 30%	0.020	4.15	3.50	100
CKCS6020-1.5uH/N	1.5 \pm 30%	0.022	4.25	3.20	79
CKCS6020-2.2uH/N	2.2 \pm 30%	0.028	3.75	2.75	61
CKCS6020-3.3uH/N	3.3 \pm 30%	0.035	3.15	2.60	51
CKCS6020-4.7uH/M	4.7 \pm 20%	0.058	3.00	2.00	41
CKCS6020-6.8uH/M	6.8 \pm 20%	0.079	2.20	1.80	31
CKCS6020-10uH/M	10 \pm 20%	0.105	1.75	1.40	27
CKCS6020-12uH/M	12 \pm 20%	0.120	1.45	1.30	25
CKCS6020-15uH/M	15 \pm 20%	0.145	1.20	1.20	21
CKCS6020-18uH/M	18 \pm 20%	0.180	1.20	1.08	18
CKCS6020-22uH/M	22 \pm 20%	0.204	1.05	1.00	16
CKCS6020-33uH/M	33 \pm 20%	0.300	0.95	0.84	11
CKCS6020-47uH/M	47 \pm 20%	0.430	0.70	0.80	10

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.
4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS6028-1.0uH/N	1.0 \pm 30%	0.012	5.75	5.20	70
CKCS6028-1.5uH/N	1.5 \pm 30%	0.015	6.00	4.58	65
CKCS6028-2.2uH/N	2.2 \pm 30%	0.020	5.10	3.75	48
CKCS6028-3.3uH/N	3.3 \pm 30%	0.025	4.15	3.48	41
CKCS6028-4.7uH/N	4.7 \pm 30%	0.030	3.00	3.08	35
CKCS6028-6.8uH/M	6.8 \pm 20%	0.047	2.60	2.40	27
CKCS6028-10uH/M	10 \pm 20%	0.072	2.04	1.95	23
CKCS6028-12uH/M	12 \pm 20%	0.080	1.80	1.85	18
CKCS6028-15uH/M	15 \pm 20%	0.125	1.75	1.45	18
CKCS6028-18uH/M	18 \pm 20%	0.120	1.52	1.45	15
CKCS6028-22uH/M	22 \pm 20%	0.140	1.45	1.40	14
CKCS6028-33uH/M	33 \pm 20%	0.185	1.35	1.22	12
CKCS6028-47uH/M	47 \pm 20%	0.315	1.15	1.06	9.5
CKCS6028-68uH/M	68 \pm 20%	0.360	0.80	0.86	7.7
CKCS6028-82uH/M	82 \pm 20%	0.500	0.80	0.70	7.7
CKCS6028-100uH/M	100 \pm 20%	0.500	0.65	0.70	7.1
CKCS6028-1mH/M	1000 \pm 20%	5.800	0.18	0.20	1.5

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ C$) from 25°C ambient.

4. Operating Temperature : -25°C ~ +125°C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS6045-1.0uH/N	1.0 \pm 30%	0.011	9.85	5.14	100
CKCS6045-1.5uH/N	1.5 \pm 30%	0.012	8.80	4.95	65
CKCS6045-2.2uH/N	2.2 \pm 30%	0.014	6.75	4.60	52
CKCS6045-3.3uH/N	3.3 \pm 30%	0.024	5.90	3.70	32
CKCS6045-4.7uH/M	4.7 \pm 20%	0.031	4.97	3.30	24
CKCS6045-6.8uH/M	6.8 \pm 20%	0.035	3.90	3.00	20
CKCS6045-10uH/M	10 \pm 20%	0.048	3.20	2.45	15
CKCS6045-15uH/M	15 \pm 20%	0.068	2.50	2.05	12
CKCS6045-22uH/M	22 \pm 20%	0.089	2.05	1.80	10
CKCS6045-33uH/M	33 \pm 20%	0.137	1.65	1.45	7.8
CKCS6045-47uH/M	47 \pm 20%	0.200	1.40	1.20	6.4
CKCS6045-56uH/M	56 \pm 20%	0.221	1.30	1.10	6.4
CKCS6045-68uH/M	68 \pm 20%	0.289	1.20	1.00	6.4
CKCS6045-100uH/M	100 \pm 20%	0.433	0.95	0.80	4.2
CKCS6045-120uH/M	120 \pm 20%	0.484	0.85	0.77	4.2
CKCS6045-150uH/M	150 \pm 20%	0.580	0.80	0.70	4.2
CKCS6045-220uH/M	220 \pm 20%	0.834	0.70	0.59	3.5
CKCS6045-330uH/M	330 \pm 20%	1.270	0.57	0.57	2.8
CKCS6045-470uH/M	470 \pm 20%	1.800	0.50	0.42	2
CKCS6045-680uH/M	680 \pm 20%	2.500	0.42	0.33	1.7
CKCS6045-1mH/M	1000 \pm 20%	4.500	0.30	0.30	1.4
CKCS6045-1.5mH/M	1500 \pm 20%	6.500	0.24	0.21	0.8

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +125 $^{\circ}$ C



● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
CKCS8040-0.82uH/N	0.82 \pm 30%	0.008	13.80	6.30	94
CKCS8040-1.0uH/N	1.0 \pm 30%	0.008	9.85	6.30	89
CKCS8040-1.5uH/N	1.5 \pm 30%	0.010	8.15	5.65	67
CKCS8040-2.2uH/N	2.2 \pm 30%	0.012	7.10	5.15	41
CKCS8040-3.3uH/N	3.3 \pm 30%	0.017	6.50	4.40	27
CKCS8040-4.7uH/N	4.7 \pm 30%	0.019	5.90	4.10	24
CKCS8040-6.8uH/M	6.8 \pm 20%	0.024	4.55	3.60	20
CKCS8040-8.2uH/M	8.2 \pm 20%	0.026	4.20	3.45	17
CKCS8040-10uH/M	10 \pm 20%	0.042	3.60	3.30	15
CKCS8040-15uH/M	15 \pm 20%	0.047	2.95	2.60	12
CKCS8040-18uH/M	18 \pm 20%	0.053	2.70	2.40	11
CKCS8040-22uH/M	22 \pm 20%	0.069	2.40	2.10	9.5
CKCS8040-33uH/M	33 \pm 20%	0.097	2.05	1.80	7.8
CKCS8040-47uH/M	47 \pm 20%	0.136	1.75	1.55	6.4
CKCS8040-68uH/M	68 \pm 20%	0.196	1.45	1.25	4.9
CKCS8040-82uH/M	82 \pm 20%	0.225	1.30	1.15	4.9
CKCS8040-100uH/M	100 \pm 20%	0.290	1.15	1.00	4.2
CKCS8040-120uH/M	120 \pm 20%	0.334	1.05	0.95	3.5
CKCS8040-150uH/M	150 \pm 20%	0.410	1.10	0.85	3.5
CKCS8040-220uH/M	220 \pm 20%	0.599	0.85	0.80	3.5
CKCS8040-330uH/M	330 \pm 20%	0.889	0.68	0.64	2.8
CKCS8040-470uH/M	470 \pm 20%	1.260	0.60	0.54	2.1
CKCS8040-680uH/M	680 \pm 20%	2.040	0.50	0.45	1.7
CKCS8040-1mH/M	1000 \pm 20%	2.800	0.40	0.35	1.4

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ C$) from 25°C ambient.
4. Operating Temperature : -25°C ~ +125°C



● **PACKAGING SPECIFICATION :**



Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
CKCS201610	8	1.9	2.3	1.2	1.5	4	178	58	13	2000
CKCS252010	8	2.4	2.9	1.25	1.5	4	178	58	13	2000
CKCS252012	8	2.35	2.65	1.6	1.5	4	178	58	13	2000
CKCS3010	8	3.3	3.3	1.4	1.5	4	178	58	13	2000
CKCS3012	8	3.3	3.3	1.6	1.5	4	178	58	13	2000
CKCS3015	8	3.3	3.3	1.9	1.5	4	178	58	13	2000
CKCS4012	12	4.3	4.3	1.4	1.5	8	330	100	13	4000
CKCS4018	12	4.3	4.3	2.2	1.5	8	330	100	13	3000
CKCS4020	12	4.3	4.3	2.4	1.5	8	330	100	13	3000
CKCS4030	12	4.3	4.3	3.4	1.5	8	330	100	13	2000
CKCS5020	12	5.4	5.4	2.4	1.5	8	330	100	13	3000
CKCS5040	12	5.4	5.4	4.4	1.5	8	330	100	13	1500
CKCS6020	16	6.4	6.4	2.4	1.5	8	330	100	13	2500
CKCS6028	16	6.4	6.4	3.2	1.5	8	330	100	13	2000
CKCS6045	16	6.4	6.4	4.8	1.5	8	330	100	13	1500
CKCS8040	16	8.4	8.4	4.4	1.5	12	330	100	13	1000

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