

SMD POWER INDUCTOR CKCS Series

磁胶电感 CKCS 系列

● 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 .

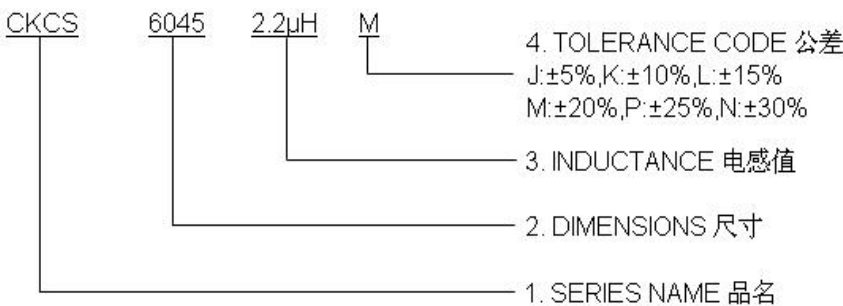


● APPLICATIONS 用途

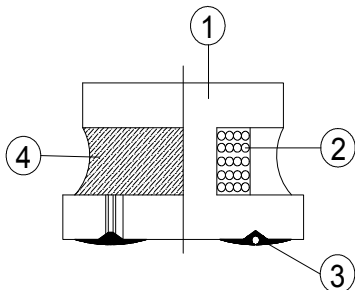
PAD,笔记本电脑,服务器,音箱,网通,安防,手机,智能家居,储能设备等

PAD,Notebook,Server,audio,netcom,security,mobile phone,smart home,Energy product...

● PART NUMBERING SYSTEM 品名系统



● STRUCTURAL DRAWING 结构图



- ① Ferrite 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)

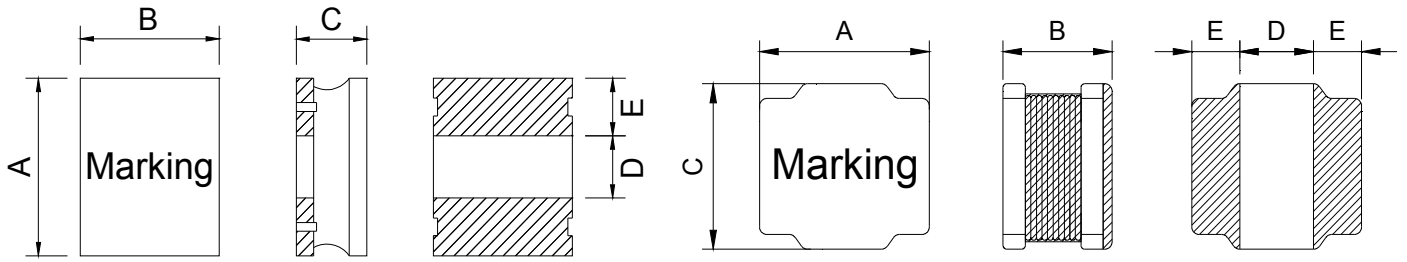


Fig 1

Fig 2

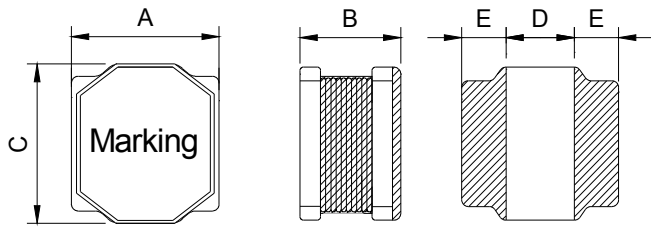
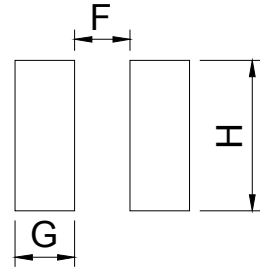


Fig 3



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 | 0.7±0.3 | 0.65±0.3 | 0.3 | 1.1 | 2.1 | 1 |
| CKCS252010 | 2.5±0.3 | 2.0±0.3 | 1.05 Max | 0.94±0.3 | 0.83±0.3 | 0.4 | 1.4 | 2.5 | 1 |
| CKCS252012 | 2.5±0.3 | 2.0±0.3 | 1.25 Max | 0.94±0.3 | 0.83±0.3 | 0.4 | 1.4 | 2.5 | 1 |
| CKCS3012 | 3.0±0.2 | 1.3 Max | 3.0±0.2 | 1.2±0.3 | 0.9±0.3 | 0.7 | 1.4 | 2.7 | 3 |
| CKCS3015 | 3.0±0.2 | 1.7 Max | 3.0±0.2 | 1.2±0.3 | 0.9±0.3 | 0.7 | 1.4 | 2.7 | 3 |
| CKCS4018 | 4.0±0.2 | 1.8 Max | 4.0±0.2 | 1.6±0.3 | 1.2±0.3 | 1.0 | 1.7 | 3.7 | 3 |
| CKCS4020 | 4.0±0.2 | 2.0 Max | 4.0±0.2 | 1.6±0.3 | 1.2±0.3 | 1.0 | 1.7 | 3.7 | 3 |
| CKCS4030 | 4.0±0.2 | 3.0 Max | 4.0±0.2 | 1.3±0.3 | 1.35±0.3 | 0.8 | 1.9 | 3.7 | 3 |
| CKCS5020 | 5.0±0.2 | 2.1 Max | 5.0±0.2 | 1.4±0.3 | 1.8±0.3 | 0.9 | 2.3 | 4.2 | 2 |
| CKCS5040 | 5.0±0.2 | 4.0 Max | 5.0±0.2 | 1.8±0.3 | 1.6±0.3 | 1.1 | 2.2 | 4.2 | 3 |
| CKCS6020 | 6.0±0.3 | 2.1 Max | 6.0±0.3 | 2.3±0.3 | 1.85±0.3 | 1.8 | 2.4 | 5.7 | 2 |
| CKCS6028 | 6.0±0.3 | 3.0 Max | 6.0±0.3 | 2.3±0.3 | 1.85±0.3 | 1.8 | 2.4 | 5.7 | 2 |
| CKCS6045 | 6.0±0.3 | 4.7 Max | 6.0±0.3 | 2.3±0.3 | 1.85±0.3 | 1.8 | 2.4 | 5.7 | 2 |
| CKCS8040 | 8.0±0.3 | 4.2 Max | 8.0±0.3 | 3.6±0.3 | 2.2±0.3 | 3.1 | 2.7 | 7.5 | 2 |
| CKCS8060 | 8.0±0.3 | 6.2 Max | 8.0±0.3 | 3.6±0.3 | 2.2±0.3 | 3.1 | 2.7 | 7.5 | 2 |
| CKCS8080 | 8.0±0.3 | 8.0 Max | 8.0±0.3 | 3.6±0.3 | 2.2±0.3 | 3.1 | 2.7 | 7.5 | 2 |



● SPECIFICATION TABLE 规格特性表

CKCS201610

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (Max.) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 | Marker 印字 |
|--------------------|---------------------------|---------------------------|----------------------------|----------------------------|--------------|
| CKCS201610-1uH/N | 1±30% | 0.114 | 1.65 | 1.45 | / |
| CKCS201610-1.5uH/N | 1.5±30% | 0.174 | 1.35 | 1.25 | / |
| CKCS201610-2.2uH/N | 2.2±30% | 0.264 | 1.10 | 1.10 | / |
| CKCS201610-3.3uH/M | 3.3±20% | 0.335 | 0.90 | 0.88 | / |
| CKCS201610-4.7uH/M | 4.7±20% | 0.479 | 0.70 | 0.74 | / |
| CKCS201610-6.8uH/M | 6.8±20% | 0.816 | 0.60 | 0.52 | / |

CKCS252010

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (Max.) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 | Marker 印字 |
|--------------------|---------------------------|---------------------------|----------------------------|----------------------------|--------------|
| CKCS252010-1uH/N | 1±30% | 0.108 Max. | 1.85 | 1.65 | A |
| CKCS252010-1.5uH/N | 1.5±30% | 0.182 Max. | 1.80 | 1.30 | B |
| CKCS252010-2.2uH/N | 2.2±30% | 0.209 Max. | 1.20 | 1.20 | C |
| CKCS252010-3.3uH/M | 3.3±20% | 0.328 Max. | 1.05 | 0.90 | D |
| CKCS252010-4.7uH/M | 4.7±20% | 0.563 Max. | 0.95 | 0.70 | E |
| CKCS252010-5.6uH/M | 5.6±20% | 0.563 Max. | 0.80 | 0.73 | F |
| CKCS252010-6.8uH/M | 6.8±20% | 0.896 Max. | 0.78 | 0.59 | G |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 1MHz,0.2Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 50V



CKCS252012

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (Max.) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 | Marker 印字 |
|-------------------------|---------------------------|---------------------------|----------------------------|----------------------------|--------------|
| CKCS252012-0.47uH/N-010 | 0.47±30% | 0.085 | 3.82 | 1.95 | A |
| CKCS252012-0.68uH/N-010 | 0.68±30% | 0.098 | 3.28 | 1.93 | B |
| CKCS252012-1uH/N | 1±30% | 0.090 | 2.59 | 1.93 | C |
| CKCS252012-1.5uH/N | 1.5±30% | 0.147 | 2.24 | 1.40 | E |
| CKCS252012-2.2uH/N | 2.2±30% | 0.216 | 1.85 | 1.15 | F |
| CKCS252012-3.3uH/M | 3.3±20% | 0.264 | 1.61 | 1.04 | G |
| CKCS252012-4.7uH/M | 4.7±20% | 0.377 | 1.12 | 0.84 | H |
| CKCS252012-6.8uH/M | 6.8±20% | 0.581 | 0.98 | 0.69 | J |
| CKCS252012-10uH/M | 10±20% | 0.690 | 0.79 | 0.62 | K |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 1MHz,0.2Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 50V



CKCS3012

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS3012-1uH/N | 1±30% | 0.040 | 1.87 | 2.20 |
| CKCS3012-1.5uH/N | 1.5±30% | 0.045 | 1.62 | 2.01 |
| CKCS3012-2.2uH/N | 2.2±30% | 0.075 | 1.20 | 1.55 |
| CKCS3012-3.3uH/M | 3.3±20% | 0.100 | 1.05 | 1.36 |
| CKCS3012-4.7uH/M | 4.7±20% | 0.150 | 0.90 | 1.24 |
| CKCS3012-6.8uH/M | 6.8±20% | 0.190 | 0.75 | 0.98 |
| CKCS3012-10uH/M | 10±20% | 0.320 | 0.60 | 0.83 |
| CKCS3012-15uH/M | 15±20% | 0.360 | 0.45 | 0.71 |
| CKCS3012-22uH/M | 22±20% | 0.645 | 0.42 | 0.53 |
| CKCS3012-33uH/M | 33±20% | 0.875 | 0.36 | 0.46 |
| CKCS3012-47uH/M | 47±20% | 1.450 | 0.27 | 0.35 |

CKCS3015

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS3015-1uH/N | 1±30% | 0.039 | 2.32 | 2.35 |
| CKCS3015-1.5uH/N | 1.5±30% | 0.050 | 2.00 | 1.70 |
| CKCS3015-2.2uH/N | 2.2±30% | 0.060 | 1.60 | 1.60 |
| CKCS3015-3.3uH/M | 3.3±20% | 0.080 | 1.32 | 1.36 |
| CKCS3015-4.7uH/M | 4.7±20% | 0.125 | 1.10 | 1.09 |
| CKCS3015-6.8uH/M | 6.8±20% | 0.200 | 0.85 | 0.85 |
| CKCS3015-10uH/M | 10±20% | 0.250 | 0.72 | 0.77 |
| CKCS3015-15uH/M | 15±20% | 0.350 | 0.66 | 0.65 |
| CKCS3015-22uH/M | 22±20% | 0.460 | 0.52 | 0.57 |
| CKCS3015-33uH/M | 33±20% | 0.820 | 0.44 | 0.43 |
| CKCS3015-47uH/M | 47±20% | 1.250 | 0.35 | 0.35 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)

6. Absolute maximum voltage: DC 50V



CKCS4018

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS4018-0.47uH/N | 0.47±30% | 0.023 | 4.30 | 2.50 |
| CKCS4018-1uH/N | 1±30% | 0.025 | 4.20 | 2.00 |
| CKCS4018-1.5uH/N | 1.5±30% | 0.030 | 3.35 | 1.80 |
| CKCS4018-2.2uH/N | 2.2±30% | 0.045 | 2.70 | 1.65 |
| CKCS4018-3.3uH/M | 3.3±20% | 0.070 | 2.45 | 1.23 |
| CKCS4018-4.7uH/M | 4.7±20% | 0.090 | 1.70 | 1.20 |
| CKCS4018-6.8uH/M | 6.8±20% | 0.110 | 1.45 | 1.06 |
| CKCS4018-10uH/M | 10±20% | 0.180 | 1.30 | 0.84 |
| CKCS4018-15uH/M | 15±20% | 0.250 | 0.94 | 0.65 |
| CKCS4018-22uH/M | 22±20% | 0.360 | 0.80 | 0.59 |
| CKCS4018-33uH/M | 33±20% | 0.530 | 0.56 | 0.49 |
| CKCS4018-47uH/M | 47±20% | 0.650 | 0.57 | 0.42 |
| CKCS4018-68uH/M | 68±20% | 1.000 | 0.47 | 0.32 |
| CKCS4018-100uH/M | 100±20% | 1.750 | 0.40 | 0.25 |
| CKCS4018-150uH/M | 150±20% | 2.500 | 0.30 | 0.22 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C (Including self - temperature rise)

6. CKCS4018-100uH~150uH Absolute maximum voltage: DC 50V



CKCS4020

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR ($\pm 30\%$) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|--------------------------------------------|----------------------------|----------------------------|
| CKCS4020-1uH/N | 1 $\pm 30\%$ | 0.029 | 4.78 | 2.15 |
| CKCS4020-1.5uH/N | 1.5 $\pm 30\%$ | 0.035 | 4.45 | 1.98 |
| CKCS4020-2.2uH/N | 2.2 $\pm 30\%$ | 0.040 | 3.40 | 1.85 |
| CKCS4020-3.3uH/M | 3.3 $\pm 20\%$ | 0.070 | 3.20 | 1.40 |
| CKCS4020-4.7uH/M | 4.7 $\pm 20\%$ | 0.075 | 2.35 | 1.34 |
| CKCS4020-6.8uH/M | 6.8 $\pm 20\%$ | 0.125 | 2.00 | 1.04 |
| CKCS4020-10uH/M | 10 $\pm 20\%$ | 0.165 | 1.60 | 0.90 |
| CKCS4020-15uH/M | 15 $\pm 20\%$ | 0.230 | 1.35 | 0.77 |
| CKCS4020-22uH/M | 22 $\pm 20\%$ | 0.350 | 1.05 | 0.62 |
| CKCS4020-33uH/M | 33 $\pm 20\%$ | 0.550 | 0.85 | 0.49 |
| CKCS4020-47uH/M | 47 $\pm 20\%$ | 0.710 | 0.74 | 0.44 |
| CKCS4020-56uH/M | 56 $\pm 20\%$ | 0.800 | 0.66 | 0.41 |
| CKCS4020-68uH/M | 68 $\pm 20\%$ | 1.060 | 0.61 | 0.36 |
| CKCS4020-82uH/M | 82 $\pm 20\%$ | 1.170 | 0.50 | 0.34 |
| CKCS4020-100uH/M | 100 $\pm 20\%$ | 1.550 | 0.48 | 0.31 |
| CKCS4020-150uH/M | 150 $\pm 20\%$ | 2.800 | 0.40 | 0.25 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : $-40^\circ\text{C} \sim +125^\circ\text{C}$ (Including self - temperature rise)

6. CKCS4020-100uH~150uH Absolute maximum voltage: DC 50V



CKCS4030

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS4030-1uH/N | 1±30% | 0.016 | 5.26 | 4.14 |
| CKCS4030-1.5uH/N | 1.5±30% | 0.025 | 4.84 | 3.34 |
| CKCS4030-2.2uH/N | 2.2±30% | 0.030 | 4.40 | 2.95 |
| CKCS4030-3.3uH/M | 3.3±20% | 0.040 | 3.30 | 2.40 |
| CKCS4030-4.7uH/M | 4.7±20% | 0.060 | 2.90 | 2.00 |
| CKCS4030-6.8uH/M | 6.8±20% | 0.090 | 2.75 | 1.60 |
| CKCS4030-10uH/M | 10±20% | 0.120 | 1.95 | 1.50 |
| CKCS4030-15uH/M | 15±20% | 0.190 | 1.65 | 1.11 |
| CKCS4030-22uH/M | 22±20% | 0.225 | 1.30 | 1.00 |
| CKCS4030-33uH/M | 33±20% | 0.330 | 1.10 | 0.84 |
| CKCS4030-47uH/M | 47±20% | 0.445 | 0.95 | 0.72 |
| CKCS4030-68uH/M | 68±20% | 0.868 | 0.72 | 0.52 |
| CKCS4030-100uH/M | 100±20% | 1.150 | 0.60 | 0.45 |
| CKCS4030-120uH/M | 120±20% | 1.300 | 0.53 | 0.42 |
| CKCS4030-150uH/M | 150±20% | 1.800 | 0.50 | 0.39 |
| CKCS4030-180uH/M | 180±20% | 2.200 | 0.45 | 0.38 |
| CKCS4030-220uH/M | 220±20% | 2.500 | 0.40 | 0.35 |
| CKCS4030-330uH/M | 330±20% | 4.000 | 0.30 | 0.25 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C (Including self - temperature rise)

6. CKCS4030-150uH~330uH Absolute maximum voltage: DC 50V

电阻可以定为: $100\text{m}\Omega \pm 30\%$, 实测值: 112, 111, 113, 116, 1150m Ω



CKCS5020

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS5020-0.47uH/N | 0.47±30% | 0.013 | 6.20 | 4.60 |
| CKCS5020-1uH/N | 1±30% | 0.020 | 4.10 | 3.80 |
| CKCS5020-1.5uH/N | 1.5±30% | 0.030 | 4.10 | 3.20 |
| CKCS5020-2.2uH/N | 2.2±30% | 0.032 | 3.20 | 2.70 |
| CKCS5020-3.3uH/M | 3.3±20% | 0.050 | 2.55 | 2.30 |
| CKCS5020-4.7uH/M | 4.7±20% | 0.057 | 2.50 | 2.20 |
| CKCS5020-6.8uH/M | 6.8±20% | 0.083 | 2.05 | 1.80 |
| CKCS5020-10uH/M | 10±20% | 0.120 | 1.70 | 1.55 |
| CKCS5020-15uH/M | 15±20% | 0.165 | 1.35 | 1.25 |
| CKCS5020-22uH/M | 22±20% | 0.250 | 1.15 | 1.10 |
| CKCS5020-33uH/M | 33±20% | 0.400 | 0.92 | 0.90 |
| CKCS5020-47uH/M | 47±20% | 0.580 | 0.77 | 0.75 |
| CKCS5020-68uH/M | 68±20% | 0.740 | 0.65 | 0.64 |
| CKCS5020-100uH/M | 100±20% | 1.100 | 0.53 | 0.53 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz,1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)



CKCS5040

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS5040-1uH/N | 1±30% | 0.012 | 7.35 | 4.90 |
| CKCS5040-1.2uH/N | 1.2±30% | 0.016 | 6.50 | 4.15 |
| CKCS5040-1.5uH/N | 1.5±30% | 0.018 | 6.30 | 4.00 |
| CKCS5040-2.2uH/N | 2.2±30% | 0.019 | 4.90 | 3.80 |
| CKCS5040-3.3uH/M | 3.3±20% | 0.024 | 3.95 | 3.40 |
| CKCS5040-4.7uH/M | 4.7±20% | 0.032 | 3.50 | 3.00 |
| CKCS5040-6.8uH/M | 6.8±20% | 0.043 | 2.90 | 2.50 |
| CKCS5040-10uH/M | 10±20% | 0.064 | 2.35 | 2.10 |
| CKCS5040-15uH/M | 15±20% | 0.086 | 2.00 | 2.00 |
| CKCS5040-22uH/M | 22±20% | 0.129 | 1.60 | 1.50 |
| CKCS5040-33uH/M | 33±20% | 0.188 | 1.30 | 1.20 |
| CKCS5040-47uH/M | 47±20% | 0.272 | 1.10 | 1.00 |
| CKCS5040-68uH/M | 68±20% | 0.400 | 0.90 | 0.80 |
| CKCS5040-100uH/M | 100±20% | 0.560 | 0.75 | 0.70 |
| CKCS5040-150uH/M | 150±20% | 0.750 | 0.65 | 0.60 |
| CKCS5040-180uH/M | 180±20% | 1.200 | 0.60 | 0.48 |
| CKCS5040-220uH/M | 220±20% | 1.280 | 0.48 | 0.40 |
| CKCS5040-330uH/M | 330±20% | 2.100 | 0.42 | 0.36 |
| CKCS5040-470uH/M | 470±20% | 3.000 | 0.37 | 0.35 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz,1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)

6. CKCS5040-330uH~470uH Absolute maximum voltage: DC 100V

从实测值判定，电阻可以做到 $0.06\Omega\pm 30\%$



CKCS6020

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS6020-1uH/N | 1±30% | 0.020 | 4.15 | 3.50 |
| CKCS6020-1.5uH/N | 1.5±30% | 0.022 | 4.25 | 3.20 |
| CKCS6020-2.2uH/N | 2.2±30% | 0.028 | 3.75 | 2.75 |
| CKCS6020-3.3uH/M | 3.3±20% | 0.035 | 3.15 | 2.60 |
| CKCS6020-4.7uH/M | 4.7±20% | 0.058 | 3.00 | 2.00 |
| CKCS6020-6.8uH/M | 6.8±20% | 0.079 | 2.20 | 1.80 |
| CKCS6020-10uH/M | 10±20% | 0.105 | 1.75 | 1.40 |
| CKCS6020-15uH/M | 15±20% | 0.145 | 1.20 | 1.20 |
| CKCS6020-18uH/M | 18±20% | 0.180 | 1.20 | 1.08 |
| CKCS6020-22uH/M | 22±20% | 0.204 | 1.05 | 1.00 |
| CKCS6020-33uH/M | 33±20% | 0.300 | 0.95 | 0.84 |
| CKCS6020-47uH/M | 47±20% | 0.430 | 0.70 | 0.80 |
| CKCS6020-100uH/M | 100±20% | 1.100 | 0.40 | 0.40 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)



CKCS6028

| PART NUMBER 品名 | INDUCTANCE (uH) 电感值 | DCR (±30%) (Ω) 直流电阻 | Isat (Max.) (A) 饱和电流 | Irms (Max.) (A) 温升电流 |
|-------------------|---------------------------|---------------------------|----------------------------|----------------------------|
| CKCS6028-1uH/N | 1±30% | 0.013 | 5.75 | 5.20 |
| CKCS6028-1.5uH/N | 1.5±30% | 0.015 | 6.00 | 4.58 |
| CKCS6028-2.2uH/N | 2.2±30% | 0.02 | 5.10 | 3.75 |
| CKCS6028-3.3uH/M | 3.3±20% | 0.025 | 4.15 | 3.48 |
| CKCS6028-4.7uH/M | 4.7±20% | 0.03 | 3.00 | 3.08 |
| CKCS6028-6.8uH/M | 6.8±20% | 0.047 | 2.60 | 2.40 |
| CKCS6028-10uH/M | 10±20% | 0.072 | 2.04 | 1.95 |
| CKCS6028-15uH/M | 15±20% | 0.125 | 1.75 | 1.45 |
| CKCS6028-18uH/M | 18±20% | 0.12 | 1.52 | 1.45 |
| CKCS6028-22uH/M | 22±20% | 0.14 | 1.45 | 1.40 |
| CKCS6028-33uH/M | 33±20% | 0.185 | 1.35 | 1.22 |
| CKCS6028-47uH/M | 47±20% | 0.315 | 1.15 | 1.06 |
| CKCS6028-68uH/M | 68±20% | 0.36 | 0.80 | 0.86 |
| CKCS6028-82uH/M | 82±20% | 0.50 | 0.80 | 0.70 |
| CKCS6028-100uH/M | 100±20% | 0.50 | 0.65 | 0.70 |
| CKCS6028-150uH/M | 150±20% | 1.00 | 0.50 | 0.50 |
| CKCS6028-220uH/M | 220±20% | 1.25 | 0.45 | 0.45 |
| CKCS6028-330uH/M | 330±20% | 1.90 | 0.35 | 0.38 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C (Including self - temperature rise)



CKCS6045

| 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) 温升电流 |
|-------------------|---------------------------------|------------------------------------------|----------------------------|----------------------------|
| CKCS6045-1uH/N | 1 \pm 30% | 0.011 | 9.85 | 5.14 |
| CKCS6045-1.5uH/N | 1.5 \pm 30% | 0.012 | 8.80 | 4.95 |
| CKCS6045-2.2uH/N | 2.2 \pm 30% | 0.014 | 6.75 | 4.60 |
| CKCS6045-3.3uH/M | 3.3 \pm 20% | 0.024 | 5.90 | 3.70 |
| CKCS6045-4.7uH/M | 4.7 \pm 20% | 0.031 | 4.97 | 3.30 |
| CKCS6045-6.8uH/M | 6.8 \pm 20% | 0.035 | 3.90 | 3.00 |
| CKCS6045-10uH/M | 10 \pm 20% | 0.048 | 3.20 | 2.45 |
| CKCS6045-15uH/M | 15 \pm 20% | 0.068 | 2.50 | 2.05 |
| CKCS6045-22uH/M | 22 \pm 20% | 0.089 | 2.05 | 1.80 |
| CKCS6045-33uH/M | 33 \pm 20% | 0.137 | 1.65 | 1.45 |
| CKCS6045-47uH/M | 47 \pm 20% | 0.200 | 1.40 | 1.20 |
| CKCS6045-68uH/M | 68 \pm 20% | 0.289 | 1.20 | 1.00 |
| CKCS6045-82uH/M | 82 \pm 20% | 0.400 | 1.05 | 0.90 |
| CKCS6045-100uH/M | 100 \pm 20% | 0.433 | 0.95 | 0.80 |
| CKCS6045-120uH/M | 120 \pm 20% | 0.484 | 0.85 | 0.77 |
| CKCS6045-150uH/M | 150 \pm 20% | 0.580 | 0.80 | 0.70 |
| CKCS6045-220uH/M | 220 \pm 20% | 0.834 | 0.70 | 0.59 |
| CKCS6045-330uH/M | 330 \pm 20% | 1.270 | 0.57 | 0.57 |
| CKCS6045-470uH/M | 470 \pm 20% | 1.800 | 0.50 | 0.42 |
| CKCS6045-680uH/M | 680 \pm 20% | 2.500 | 0.42 | 0.33 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz,1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)

6. CKCS6045-470uH~680uH Absolute maximum voltage: DC 100V



CKCS8040

| 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) 温升电流 |
|-------------------|---------------------------------|------------------------------------------|----------------------------|----------------------------|
| CKCS8040-1uH/N | 1 \pm 30% | 0.008 | 9.85 | 6.30 |
| CKCS8040-1.5uH/N | 1.5 \pm 30% | 0.010 | 8.15 | 5.65 |
| CKCS8040-2.2uH/N | 2.2 \pm 30% | 0.012 | 7.10 | 5.15 |
| CKCS8040-3.3uH/M | 3.3 \pm 20% | 0.017 | 6.50 | 4.40 |
| CKCS8040-4.7uH/M | 4.7 \pm 20% | 0.019 | 5.90 | 4.10 |
| CKCS8040-6.8uH/M | 6.8 \pm 20% | 0.024 | 4.55 | 3.60 |
| CKCS8040-8.2uH/M | 8.2 \pm 20% | 0.026 | 4.20 | 3.45 |
| CKCS8040-10uH/M | 10 \pm 20% | 0.042 | 3.60 | 3.30 |
| CKCS8040-15uH/M | 15 \pm 20% | 0.047 | 2.95 | 2.60 |
| CKCS8040-22uH/M | 22 \pm 20% | 0.069 | 2.40 | 2.10 |
| CKCS8040-33uH/M | 33 \pm 20% | 0.097 | 2.05 | 1.80 |
| CKCS8040-47uH/M | 47 \pm 20% | 0.136 | 1.75 | 1.55 |
| CKCS8040-56uH/M | 56 \pm 20% | 0.180 | 1.55 | 1.30 |
| CKCS8040-68uH/M | 68 \pm 20% | 0.196 | 1.45 | 1.25 |
| CKCS8040-82uH/M | 82 \pm 20% | 0.225 | 1.30 | 1.15 |
| CKCS8040-100uH/M | 100 \pm 20% | 0.290 | 1.15 | 1.00 |
| CKCS8040-120uH/M | 120 \pm 20% | 0.334 | 1.12 | 0.95 |
| CKCS8040-150uH/M | 150 \pm 20% | 0.410 | 1.00 | 0.85 |
| CKCS8040-220uH/M | 220 \pm 20% | 0.650 | 0.85 | 0.80 |
| CKCS8040-330uH/M | 330 \pm 20% | 0.889 | 0.68 | 0.64 |
| CKCS8040-470uH/M | 470 \pm 20% | 1.260 | 0.60 | 0.54 |
| CKCS8040-680uH/M | 680 \pm 20% | 2.000 | 0.50 | 0.45 |

Remark: 1. All test data is reference to 25°C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^\circ\text{C}$) from 25°C ambient.

5. Operating Temperature : -40°C ~ +125°C(Including self - temperature rise)

6. CKCS8040-470uH~680uH Absolute maximum voltage: DC 100V

2023/2/16 电阻由2.5Ω改为2Ω±30%



CKCS8060

| 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) 温升电流 |
|-------------------|---------------------------------|------------------------------------------|----------------------------|----------------------------|
| CKCS8060-10uH/M | 10 \pm 20% | 0.035 | 5.00 | 3.20 |
| CKCS8060-22uH/M | 22 \pm 20% | 0.06 | 3.00 | 2.80 |
| CKCS8060-33uH/M | 33 \pm 20% | 0.09 | 2.50 | 2.10 |
| CKCS8060-47uH/M | 47 \pm 20% | 0.125 | 1.85 | 1.60 |
| CKCS8060-82uH/M | 82 \pm 20% | 0.23 | 1.30 | 1.20 |
| CKCS8060-100uH/M | 100 \pm 20% | 0.25 | 1.20 | 0.91 |
| CKCS8060-150uH/M | 150 \pm 20% | 0.35 | 1.15 | 0.90 |
| CKCS8060-220uH/M | 220 \pm 20% | 0.58 | 1.10 | 0.88 |
| CKCS8060-330uH/M | 330 \pm 20% | 0.80 | 0.90 | 0.65 |
| CKCS8060-470uH/M | 470 \pm 20% | 1.30 | 0.80 | 0.55 |
| CKCS8060-680uH/M | 680 \pm 20% | 1.60 | 0.70 | 0.48 |

CKCS8080

| 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) 温升电流 |
|-------------------|---------------------------------|------------------------------------------|----------------------------|----------------------------|
| CKCS8080-10uH/M | 10 \pm 20% | 0.035 | 6.00 | 3.50 |
| CKCS8080-15uH/M | 15 \pm 20% | 0.045 | 4.50 | 3.00 |
| CKCS8080-22uH/M | 22 \pm 20% | 0.055 | 4.00 | 3.00 |
| CKCS8080-33uH/M | 33 \pm 20% | 0.075 | 3.00 | 2.50 |
| CKCS8080-82uH/M | 82 \pm 20% | 0.150 | 2.20 | 1.50 |
| CKCS8080-100uH/M | 100 \pm 20% | 0.19 | 1.90 | 1.12 |
| CKCS8080-150uH/M | 150 \pm 20% | 0.30 | 1.60 | 1.00 |
| CKCS8080-220uH/M | 220 \pm 20% | 0.42 | 1.20 | 0.80 |

Remark: 1. All test data is reference to 25 $^{\circ}$ C ambient.

2. Inductance Tested at 100kHz, 1Vrms

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

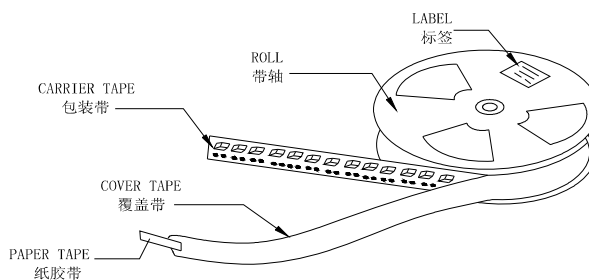
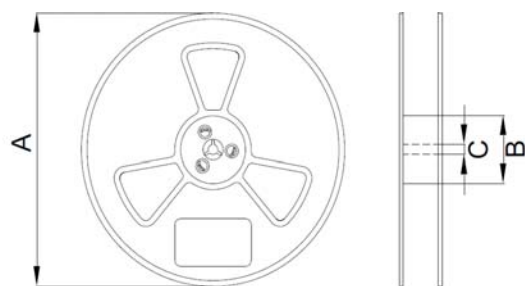
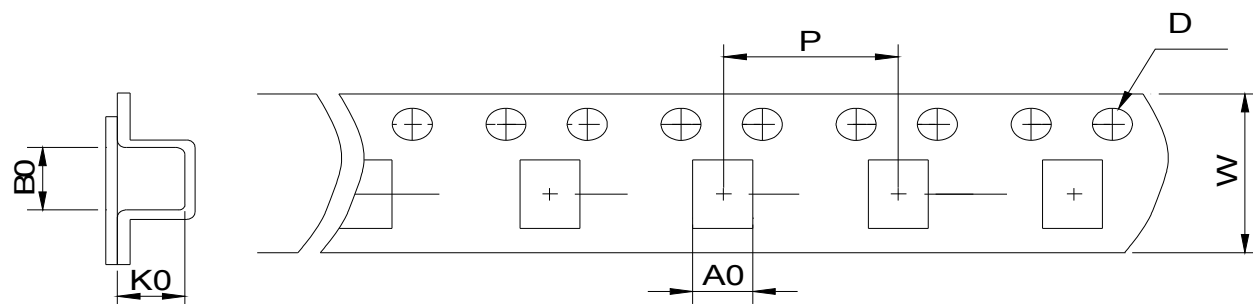
4. Irms: DC current that causes the temperature rise ($\Delta T \leq 40^{\circ}C$) from 25 $^{\circ}$ C ambient.

5. Operating Temperature : -40 $^{\circ}$ C ~ +125 $^{\circ}$ C(Including self - temperature rise)

6. CKCS8060-470uH~680uH Absolute maximum voltage: DC 100V



● **PACKAGING SPECIFICATION 包装规格**



| TYPE(型号) | Tape Dimension 载带尺寸(mm) | | | | | | Reel Dimension 卷盘尺寸 (mm) | | | Quantity (Pcs/Reel) 数量 (个/卷) |
|------------|-------------------------|------|------|------|-----|----|--------------------------|-----|----|------------------------------|
| | W | A0 | B0 | K0 | D | P | A | B | C | |
| CKCS201610 | 8 | 1.9 | 2.2 | 1.2 | 1.5 | 4 | 178 | 58 | 13 | 2000 |
| CKCS252010 | 8 | 2.4 | 2.8 | 1.3 | 1.5 | 4 | 178 | 58 | 13 | 2000 |
| CKCS252012 | 8 | 2.45 | 2.75 | 1.55 | 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 | 1.85 | 1.5 | 4 | 178 | 58 | 13 | 2000 |
| CKCS4018 | 12 | 4.3 | 4.3 | 2 | 1.5 | 8 | 330 | 100 | 13 | 3000 |
| CKCS4020 | 12 | 4.3 | 4.3 | 2.2 | 1.5 | 8 | 330 | 100 | 13 | 3000 |
| CKCS4030 | 12 | 4.3 | 4.3 | 3.2 | 1.5 | 8 | 330 | 100 | 13 | 2000 |
| CKCS5020 | 12 | 5.3 | 5.3 | 2.3 | 1.5 | 8 | 330 | 100 | 13 | 3000 |
| CKCS5040 | 12 | 5.3 | 5.3 | 4.2 | 1.5 | 8 | 330 | 100 | 13 | 1500 |
| CKCS6020 | 16 | 6.4 | 6.4 | 2.2 | 1.5 | 8 | 330 | 100 | 13 | 2500 |
| CKCS6028 | 16 | 6.4 | 6.4 | 3.1 | 1.5 | 8 | 330 | 100 | 13 | 2000 |
| CKCS6045 | 16 | 6.4 | 6.4 | 4.75 | 1.5 | 8 | 330 | 100 | 13 | 1500 |
| CKCS8040 | 16 | 8.4 | 8.4 | 4.2 | 1.5 | 12 | 330 | 100 | 13 | 1000 |
| CKCS8060 | 16 | 8.4 | 8.4 | 6.5 | 1.5 | 12 | 330 | 100 | 13 | 800 |
| CKCS8080 | 16 | 8.4 | 8.4 | 8.2 | 1.5 | 12 | 330 | 100 | 13 | 500 |

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