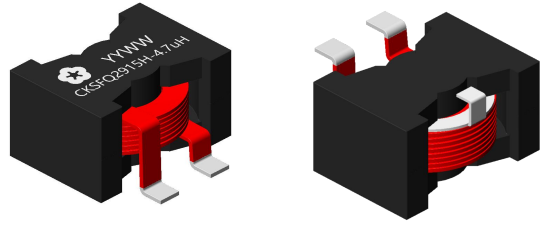




High Current Power Inductor 组装大电流功率电感

● FEATURES 特性

1. Assemblage design, sturdy structure.
组立式设计，结构坚固。
2. Magnetic shielded structure with low magnetic flux.
磁屏蔽结构，磁漏小。
3. leakage low DC resistance, support high-currents.
低直流电阻，提供大电流。



● APPLICATIONS 用途

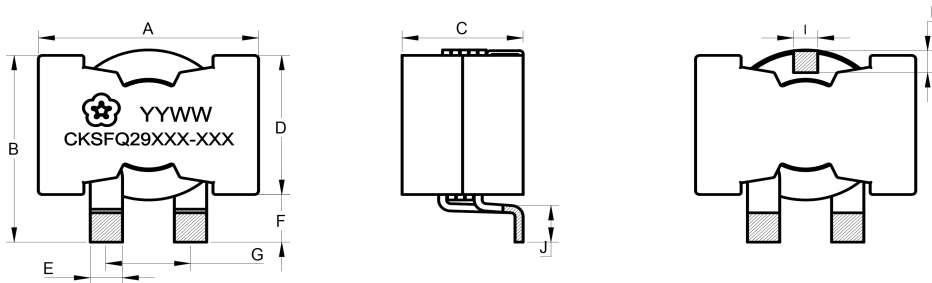
1. Speicherdrossel für hocheffiziente DC/DC.
高效直流/直流储能扼流圈
2. Resonante Schaltnetzteile
谐振开关电源

● PART NUMBERING SYSTEM 品名系统

CKSFQ 2915H - 4.7uH /M
(1) (2) (3) (4)

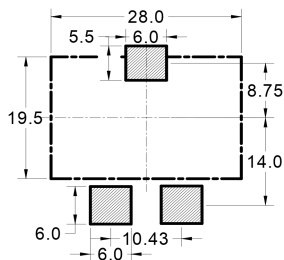
(1) Type 型号 (2) External Dimensions 外形尺寸 (3) Inductance 电感值
(4) Inductance Tolerance 电感值公差 (M:±20%)

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

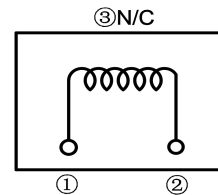


TYPE(型号)	A	B	C	D	E	F	G	J	I	K
CKSFQ2915H	27.9Max	27.9Max	15.4Max	19.7Max	4.0±0.3	6.5±1.0	10.43±0.5	3.8Min	3.0Ref	3.0Ref
CKSFQ2915L	27.9Max	27.9Max	15.4Max	19.7Max	4.0±0.3	6.5±1.0	10.43±0.5	3.8Min	3.0Ref	3.0Ref
CKSFQ2915H	27.9Max	27.9Max	18.5Max	19.7Max	4.0±0.3	6.5±1.0	10.43±0.5	3.8Min	3.0Ref	3.0Ref

● REFERENCE HOLE PATTERN 参考焊盘尺寸 (Unit:mm)



● SCHEMATIC 原理图

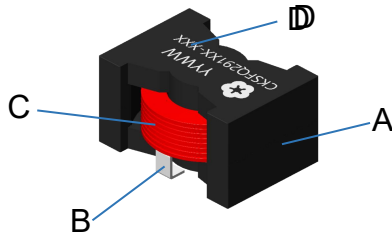




岑科科技(深圳)集团有限公司

SHENZHEN CENKER TECHNOLOGY GROUP CO., LTD.

● STRUCTURE AND MATERIAL 结构与材料



Part	Components(组件)	Material(材料)
A	Core	Ferrite
B	Clip	Tin-plated copper wires
C	Wire	Polyurethane enameled copper wire
D	Marking	Ink

● TEMPERATURE RATING 额定温度

1. Operating temperature range (individual chip without packing): -40°C to $+125^{\circ}\text{C}$
工作温度范围: -40°C ~ $+125^{\circ}\text{C}$
2. Storage temperature range (packaging conditions): -10°C ~ $+40^{\circ}\text{C}$ and RH 70% (Max.)
储存温度范围(包装条件): -10°C ~ $+40^{\circ}\text{C}$, 相对湿度70% (最大值)

● TEST AND MEASUREMENT PROCEDURES 测试项目与测试条件

1. Inductance 电感值(L)

Test equipment: HP4284A meter or equivalent

测试设备: HP4284A仪表或同等仪表

Inductance tested at 100kHz, 0.1V

在100kHz, 0.1V下测试电感值

2. DC Resistance 直流电阻(DCR)

Test equipment: Keysight 34420A or equivalent

测试设备: Keysight 34420A或同等设备

3. Saturation Current 饱和电流(Isat)

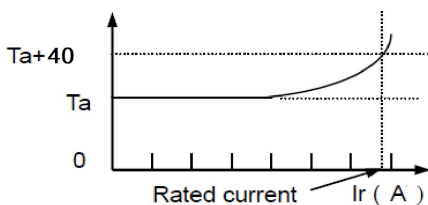
Test equipment: WK3260B LCRmeter/WK3265B or equivalent.

测试设备: WK3260B LCRmeter/WK3265B或同等设备。

4. Temperature rise current 温升电流(Irms)

Irms is direct electric current as chip surface temperature rose just 40 against chip initial surface temperature (T_a)

电感加载直流电, 电感表面温度相比于电感初始表面温度升高40度



● Reflow Soldering 回流焊

Re-flowing Profile

Preheat condition: 150~200 / 60~120sec.

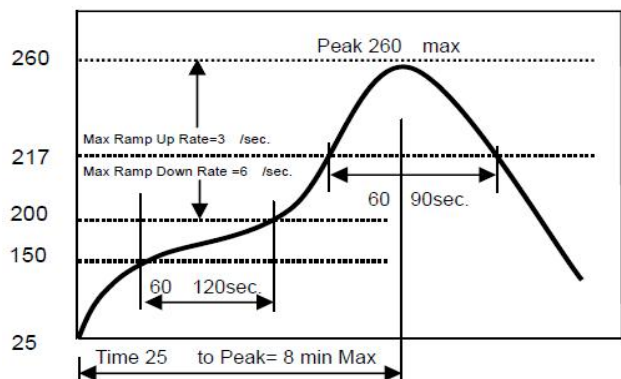
Allowed time above 217C: 60~90sec.

Max temp: 260

Max time at max temp: 10sec

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2 times max





● SPECIFICATION TABLE 规格特性表

CKSFQ2915L Series

PART NUMBER 品名	Inductance 电感值	DC Resistance 直流电阻		Saturation Current (Isat)饱和电流	Rated Current (I _{rms})温升电流
Units	μH	mΩ		A	A
Tol	±20%	Typ	Max	Typ	Typ
CKSFQ2915L-1.5uH/M	1.5	1.05	1.20	>100	36.2
CKSFQ2915L-2.2uH/M	2.2	1.05	1.20	84.8	36.2
CKSFQ2915L-3.3uH/M	3.3	1.05	1.20	57.0	36.2
CKSFQ2915L-4.7uH/M	4.7	1.05	1.20	39.0	36.2
CKSFQ2915L-6.8uH/M	6.8	1.05	1.20	27.8	36.2
CKSFQ2915L-10uH/M	10.0	1.05	1.20	17.6	36.2
CKSFQ2915L-15uH/M	15.0	1.05	1.20	11.0	36.2
CKSFQ2915L-22uH/M	22.0	1.05	1.20	6.8	36.2
CKSFQ2915L-33uH/M	33.0	1.05	1.20	3.3	36.2

CKSFQ2915H Series

PART NUMBER 品名	Inductance 电感值	DC Resistance 直流电阻		Saturation Current (Isat)饱和电流	Rated Current (I _{rms})温升电流
Units	μH	mΩ		A	A
Tol	±20%	Typ	Max	Typ	Typ
CKSFQ2915H-2.2uH/M	2.2	1.35	1.53	>100	32.8
CKSFQ2915H-3.3uH/M	3.3	1.35	1.53	68.0	32.8
CKSFQ2915H-4.7uH/M	4.7	1.35	1.53	50.0	32.8
CKSFQ2915H-6.8uH/M	6.8	1.35	1.53	36.0	32.8
CKSFQ2915H-10uH/M	10.0	1.35	1.53	23.0	32.8
CKSFQ2915H-15uH/M	15.0	1.35	1.53	15.0	32.8
CKSFQ2915H-22uH/M	22.0	1.35	1.53	9.6	32.8
CKSFQ2915H-33uH/M	33.0	1.35	1.53	5.9	32.8



● SPECIFICATION TABLE:

CKSFQ2918H Series

PART NUMBER 品名	Inductance 电感值	DC Resistance 直流电阻		Saturation Current (Isat)饱和电流	Rated Current (I _{rms})温升电流
Units	μH	mΩ		A	A
Tol	±20%	Typ	Max	Typ	Typ
CKSFQ2918H-1.0uH/M	1.0	0.44	0.50	>100	54
CKSFQ2918H-1.5uH/M	1.5	0.44	0.50	91.8	54
CKSFQ2918H-3.3uH/M	3.3	2.15	2.58	94.0	30
CKSFQ2918H-4.7uH/M	4.7	2.15	2.58	65.0	30
CKSFQ2918H-6.8uH/M	6.8	2.15	2.58	48.0	30
CKSFQ2918H-10uH/M	10.0	2.15	2.58	33.0	30
CKSFQ2918H-15uH/M	15.0	2.15	2.58	24.0	30
CKSFQ2918H-22uH/M	22.0	2.15	2.58	15.0	30
CKSFQ2918H-33uH/M	33.0	2.15	2.58	10.5	30

Note:

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

※2: Test Condition: 100kHz, 0.1V_{rms}

※3: ISaturation current: the actual value of DC current when the inductance decrease 30% of its initial value.

※4: Temperature rise current: the actual value of DC current when the temperature rise is ΔT40°C(T_a=25°C).

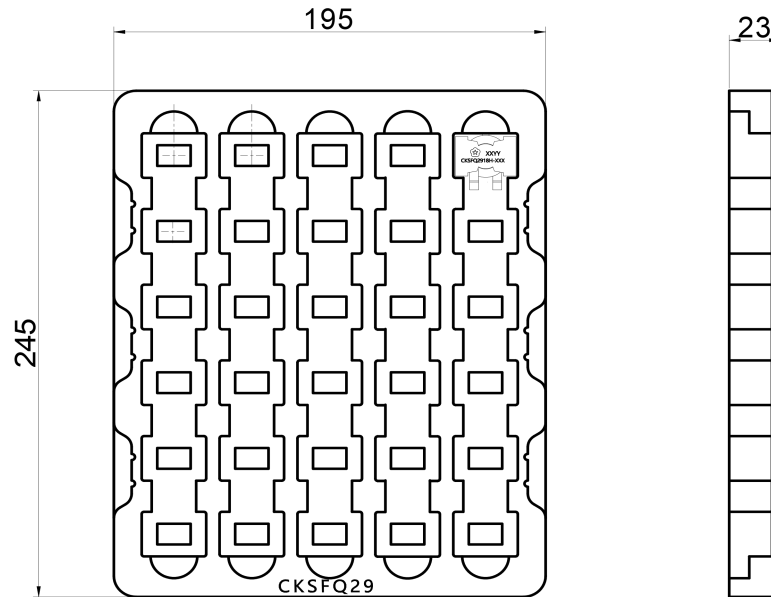
※5: Special remind: Circuit design, component placement, PCB size and thickness, cooling system and etc.

all will affect the product temperature. Please verify the product temperature in the final application.

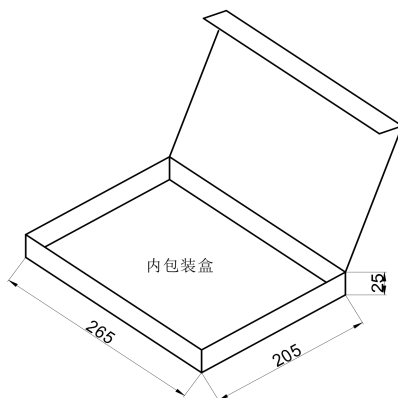


● **PACKAGING SPECIFICATION** 包装规格

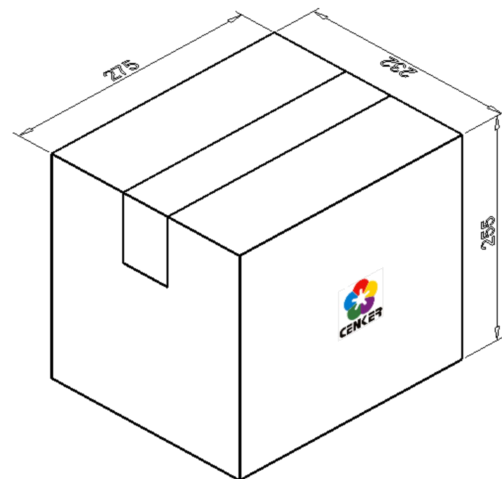
1. Plastic Tray Dimensions (mm)



Quantity: 30pcs/Tray



1 Tray in 1 Box=30pcs/Box



9 Box in 1 Carton=240pcs/Carton