

## SMD High Current Molded Inductors - FCH8050 - Series

FCH8050-Series

**●Features:**

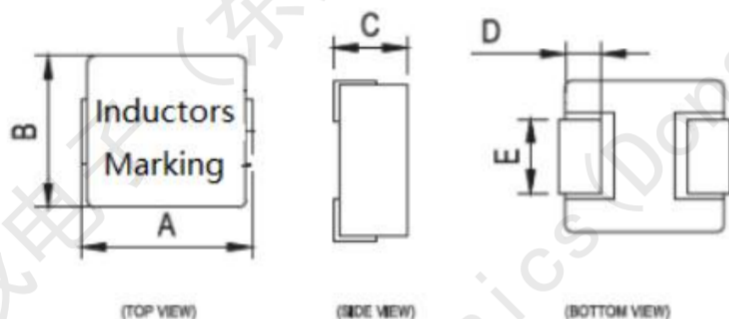
- Ultra low cost
- Shielded constructions
- High current rating up to DC 20Amp
- High frequency range up to 5MHz
- Very low DC resistance
- Low Noise
- RoHS compliant

**●Applications:**

- PDA/Notebook/Desktop/Server applications
- DC/DC converter

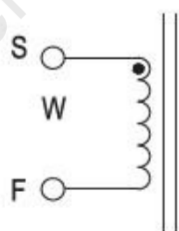


### 1.Shapes and Dimensions ( 形状及尺寸 )

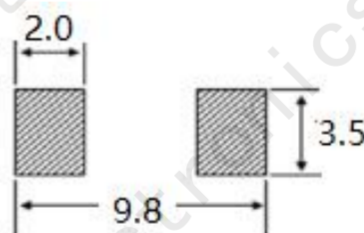


Type	A	B	C	D	E
FCH8050	9.2MAX	8.0±0.3	5.0 MAX	1.8±0.3	3.0±0.3

### 2.Schematic:



### 3.layout recommendation:(mm)



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4. FCH8050 -Series:

Part Number (品名)	Inductance (uH) ±20% (电感值)	DCR(mΩ) (直流阻抗)		Isat DC Curren (A) (饱和电流)	Irms DC Curren (A) (温升电流)
		Typical	MAX	Typical	Typical
FCH8050-R68M	0.68	3.4	4.5	26.0	20.0
FCH8050-1R5M	1.50	6.5	7.0	17.0	16.0
FCH8050-2R2M	2.20	6.5	9.0	15.0	14.0
FCH8050-3R3M	3.30	10.0	12.0	13.0	8.8
FCH8050-4R7M	4.70	16.0	19.0	11.0	10.0
FCH8050-6R8M	6.80	18.0	22.0	10.0	9.0
FCH8050-100M	10.00	26.0	30.0	8.0	7.0
FCH8050-150M	15.00	55.0	65.0	6.0	5.0
FCH8050-220M	22.00	72.0	80.0	5.0	4.0
FCH8050-270M	27.00	140.0	182.0	4.5	3.0
FCH8050-330M	33.00	112.0	130.0	4.0	2.0
FCH8050-470M	47.00	206.0	247.0	3.2	2.0
FCH8050-560M	56.00	200.0	250.0	3.0	1.8
FCH8050-680M	68.00	230.00	270.00	2.8	1.6

Remark:

<1>Inductance: 100KHz 0.1V

<2>Tolerance of inductance:±20%

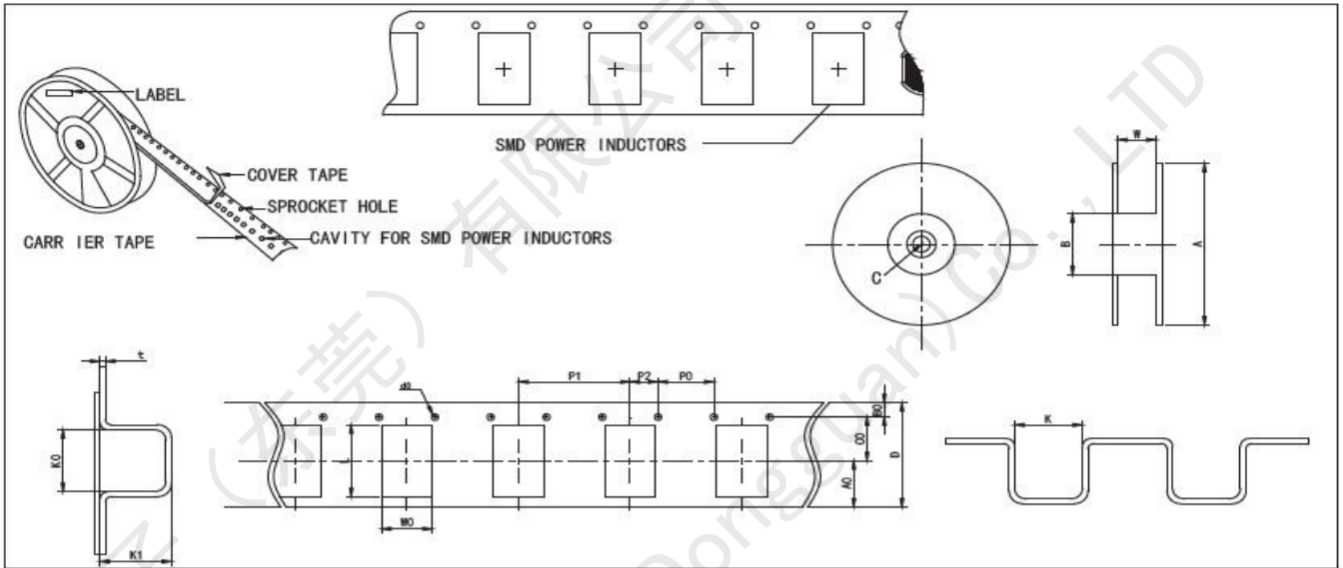
<3>Isat: The value of curret indicates that inductance drops 30%( Typcial ) from its initial value

<4>Irms:The value of current indicates that the temperature of the coil is increase 40°C (Typical)

<5>Test condition: Ta= 25°C

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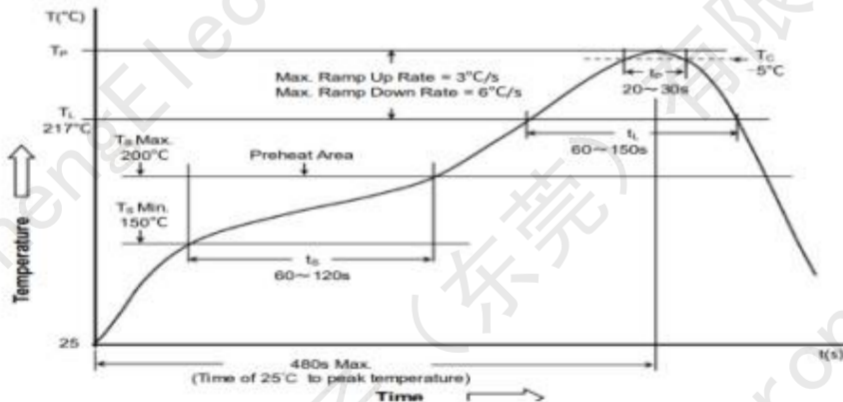
### 5.FCH8050-Series



● Reel Dimensions & Packing Unit(卷轴尺寸及包装数量)

Part Number 品名	Dimensions of Reel 卷轴尺寸				Packaging Unit 包装数
	A	B	C	W	
FCH8050	330	100.0±1.00	13.0±1.0	16±0.20	1000pcs/r

### 6. Reflow Profile for SMT Components



	Package Thickness 封装厚度	Package Volume 封装体积		
		<350 mm <sup>3</sup>	350~2000 mm <sup>3</sup>	>2000 mm <sup>3</sup>
PB-Free Assembly 无铅装配	<1.6mm	260°C	260°C	260°C
	1.6~2.5mm	260°C	250°C	245°C
	≥2.5mm	250°C	245°C	245°C

※ Reflow is referred to standard IPC/JEDEC J-STD-020D.  
回流焊参照标准 IPC/JEDEC J-STD-020D.

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