

## SMD High Current Molded Inductors - FCH0650 - Series

FCH0650-Series

**●Features:**

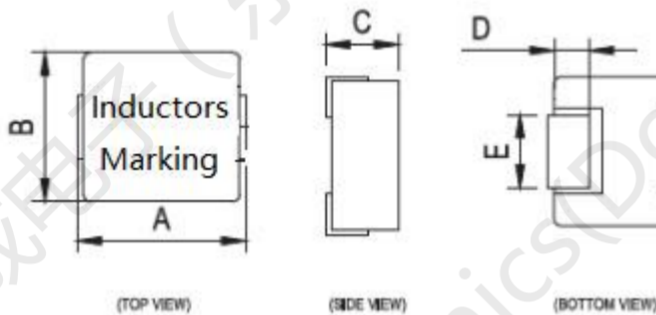
- Ultra low cost
- Shielded constructions
- High current rating up to DC 36Amp
- High frequency range up to 5MHz
- Very low DC resistance
- Low Noise
- RoHS compliant

**●Applications:**

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

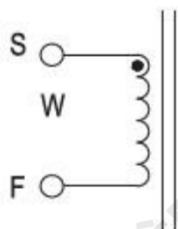


### 1.Shapes and Dimensions (形状及尺寸)

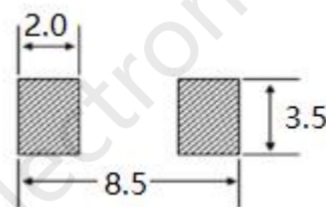


Type	A	B	C	D	E
FCH0650	7.5 MAX	6.8 MAX	5.0 MAX	1.6±0.3	3.0±0.3

### 2.Schematic:



### 3.layout recommendation:(mm)



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### 4FCH0650-Series:

Part Number (品名)	Inductance ( $\mu$ H) $\pm$ 20% (电感值)	DCR( $m\Omega$ ) (直流阻抗)		Isat DC Curren (A) (饱和电流)	Irms DC Curren (A) (温升电流)
		Typ	MAX	Typical	Typical
FCH0650-R15M	0.15	0.92	1.30	32.0	36.0
FCH0650-R22M	0.22	1.50	2.10	30.0	28.0
FCH0650-R33M	0.33	2.20	2.70	24.0	21.5
FCH0650-R56M	0.56	3.4	3.6	22.0	20.0
FCH0650-R68M	0.68	4.2	4.5	20.0	18.0
FCH0650-R82M	0.82	4.5	6.0	17.0	16.0
FCH0650-1R0M	1.00	5.6	7.0	13.0	15.0
FCH0650-1R5M	1.50	7.0	10.0	11.5	10.0
FCH0650-2R2M	2.20	9.8	12.0	11.0	9.0
FCH0650-3R3M	3.30	13.0	16.0	9.0	8.0
FCH0650-4R7M	4.70	19.4	25.5	8.0	7.0
FCH0650-5R6M	5.60	22.0	28.0	7.0	6.5
FCH0650-6R8M	6.80	22.0	30.0	6.5	6.0
FCH0650-8R2M	8.20	40.4	47.5	7.0	6.3
FCH0650-8R5M	8.50	30.0	35.8	4.5	4.0
FCH0650-100M	10.00	40.4	47.5	6.5	6.0
FCH0650-150M	15.00	54.0	70.0	5.5	5.0
FCH0650-180M	18.00	82.0	95.0	5.0	4.5
FCH0650-220M	22.00	89.5	103.0	4.5	4.0
FCH0650-330M	33.00	147	170	3.2	2.0
FCH0650-470M	47.00	198	210	2.5	2.0
FCH0650-560M	56.00	266	290	1.8	1.2
FCH0650-680M	68.00	342	360	2.1	2.0
FCH0650-820M	82.00	440	484	2.0	1.5
FCH0650-101M	100.00	469	612	2.0	1.8
FCH0650-151M	150.00	890	950	1.2	0.7

**Remark:**

<1>Inductance: 100KHz 0.1V

<2>Tolerance of inductance: $\pm$ 20%

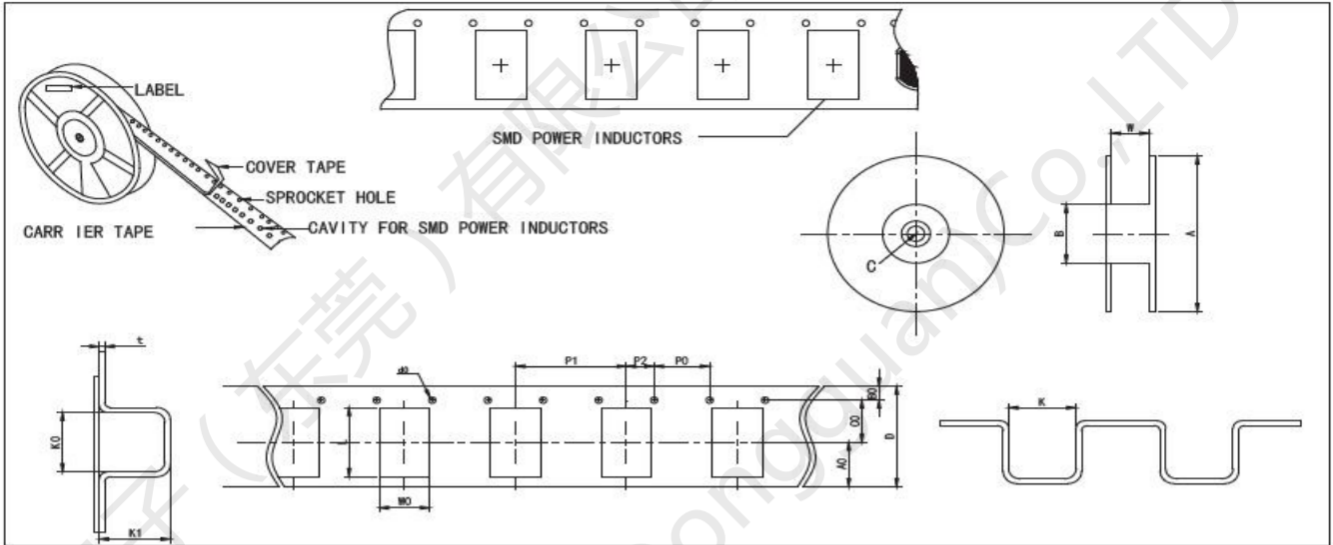
<3>Isat: The value of curret indicates that inductance drops 30%( Typcial ) from its initial value

<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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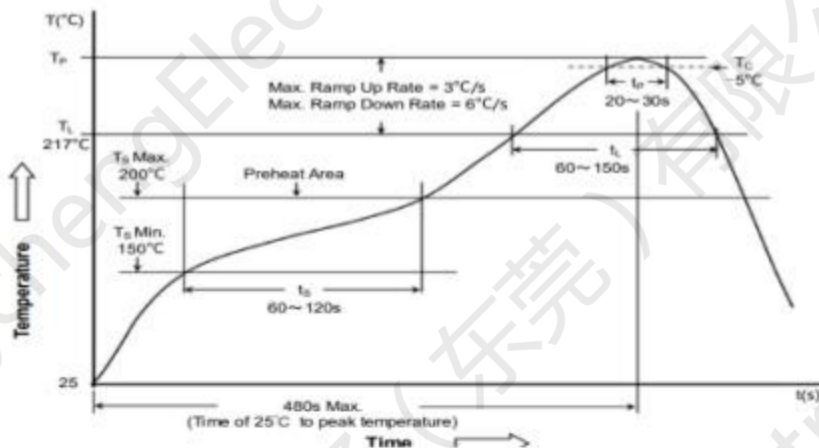
### 5.FCH0650-Series



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

Part Number 部品名	Dimensions of Reel 卷轴尺寸				Packaging Unit 包装数
	A	B	C	W	
FCH0650	330	100.0±2.00	13.5±1.0	24.0±0.50	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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