



深圳市佑驰电子有限公司

Specification for Approval

产品名称: 一体系列电感

规格型号: HCMA-0530-XXX-M

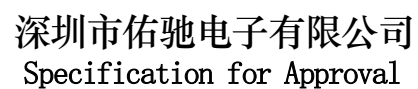
产品编号:

日期: 2020-08-15

- 1、本承认书的内容更改需经过双方确认，任一方单独的修改均视为无效。
- 2、本承认书在送达客户后，请给予承认并即签回，如无签回下订单的，我司有权以此承认书标准生产，并表示购买方默认许可。

	审核	制作

批准	审核	检验

[illegible]

High Current, Power Inductors
HCMA-0530-XXX-M Power Choke**Description**

- Halogen Free
- 125 °C maximum total temperature operation
- Powder iron core material
- Magnetically shielded, low EMI
- High current carrying capacity, Low core losses
- Frequency range up to 5 MHz
- RoHS compliant

Applications

- Voltage Regulator Module (VRM)
- Multi-phase regulators
- Point-of-load modules
- Smart phone POL modules
- SSD modules
- Notebook regulators
- Battery power systems
- Graphics cards
- Data networking and storage systems

Environmental Data

- Storage temperature range: -55 °C to +125 °C
- Operating temperature range: -55 °C to +125 °C (ambient plus self-temperature rise)
- Solder reflow temperature: J- STD-020 D complian

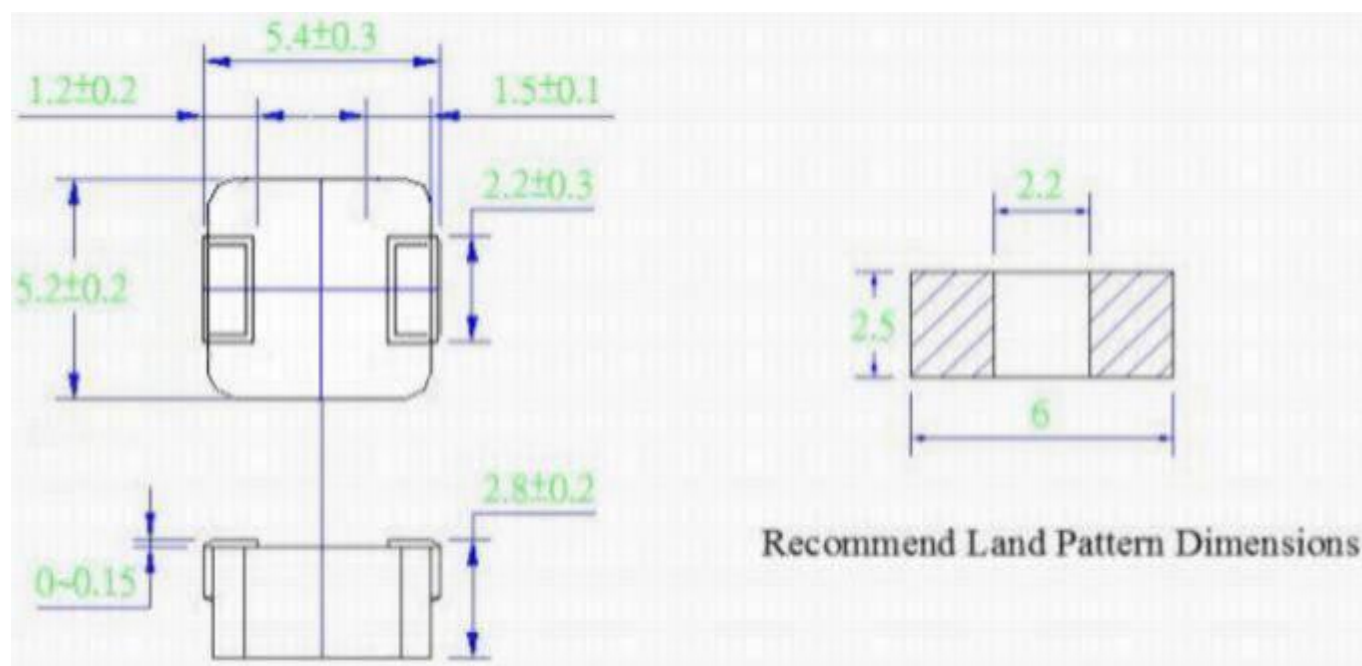
Description												
HCMA-0530-1R0 -M				1.0μH				±20 %				
Model				Inductance Value				Inductance Tolerance				
Global Part Number												
H	C	M	A	0	5	3	0	1	R	0	M	
Product Series				Dimensions				Inductance			ValueTol.	

Part Number	Inductance	DC Resistance		HeatingRatingCurrent	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 1MHz, 0.1V	Typ	Max	Typ	Typ
HCMA-0530-R10-M	0.10	2.4	3.0	23.0	26.0
HCMA-0530-R20-M	0.20	3.5	3.9	14.0	14.5
HCMA-0530-R22-M	0.22	3.6	4.0	13.0	18.0
HCMA-0530-R33-M	0.33	4.5	5.5	14.0	18.0
HCMA-0530-R47-M	0.47	8.5	10.0	11.0	12.0
HCMA-0530-R68-M	0.68	10.5	12.0	9.0	10.0
HCMA-0530-1R0-M	1.0	12.0	14.0	7.0	8.5
HCMA-0530-1R2-M	1.2	15.0	16.0	7.5	8.0
HCMA-0530-1R5-M	1.5	20.0	25.0	6.5	8.0
HCMA-0530-2R2-M	2.2	25.0	30.0	6.0	7.5
HCMA-0530-3R3-M	3.3	38.0	45.0	5.0	6.0
HCMA-0530-4R7-M	4.7	50.0	60.0	4.5	6.0
HCMA-0530-6R8-M	6.8	75.0	95.0	3.0	4.5
HCMA-0530-100-M	10.0	115.0	130.0	3.0	3.5
HCMA-0530-150-M	15.0	159.0	165.0	2.5	3.0
HCMA-0530-220-M	22.0	240.0	270.0	2.0	2.5

Notes

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 55 °C to + 125 °C
3. Idc(A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C)
- 4 . Isat(A) : DC current (A) that will cause L0 to drop approximately 30 %
- 5 . The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions.
Circuit design , component placement , PWB trace size and thickness , airflow and other cooling provisions all affect the part temperature . Part temperature should be verified in the end applicat

•Dimensions-mm

**Marking**

The inductor is marked with a 3-digit code Example - -1.0 $\rightarrow$ 1R0

Note : Using Ink for marking

