



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-0520-XXX-M

产品编号:

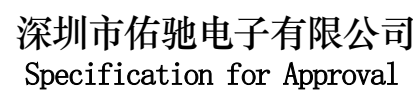
日期: 2020-08-15

1、本承诺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、本承诺书在送达客户后，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-0520-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

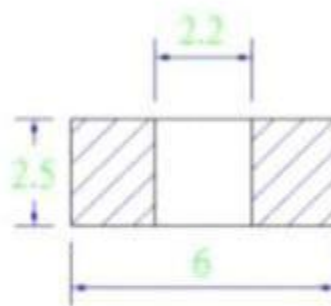
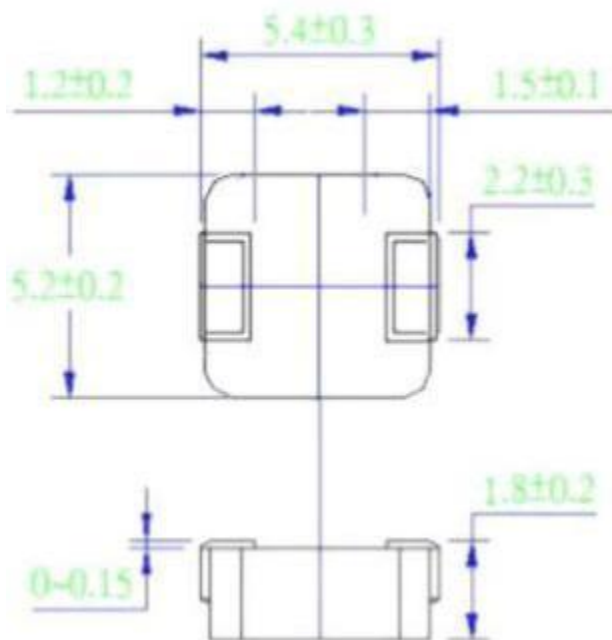
Description												
HCMA-0520-1R5-M				1.5μH				±20 %				
Model				Inductance Value				Inductance Tolerance				
Global Part Number												
H	C	M	A	0	5	2	0	1	R	5	M	
Product Series				Dimensions				Inductance Value			Tol.	

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-0520-R10-M	0.10	3.3	4.0	15.0	18.0
HCMA-0520-R15-M	0.15	4.0	5.0	13.0	16.0
HCMA-0520-R22-M	0.22	4.4	5.3	11.5	14.0
HCMA-0520-R47-M	0.47	10.0	12.0	9.0	11.0
HCMA-0520-R68-M	0.68	12.5	15.0	8.5	10.0
HCMA-0520-R82-M	0.82	14.0	16.0	8.0	9.0
HCMA-0520-1R0-M	1.0	17.0	20.0	7.0	8.0
HCMA-0520-1R5-M	1.5	26.0	31.0	5.5	7.5
HCMA-0520-2R2-M	2.2	34.0	43.0	5.0	6.5
HCMA-0520-3R3-M	3.3	58.0	64.0	3.0	5.5
HCMA-0520-4R7-M	4.7	84.0	92.0	2.8	4.5
HCMA-0520-6R8-M	6.8	124.0	136.0	2.2	3.8
HCMA-0520-100-M	10.0	165.0	182.0	2.0	3.0

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



Recommend Land Pattern Dimensions

Marking

The inductor is marked with a 3-digit code Example - 1.0 → 1R0

Note : Using Ink for marking

