



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-1050-XXX-M

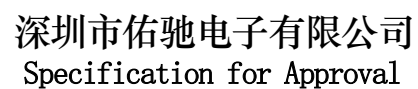
产品编号:

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-1050-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 5MHz
- 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-020D complian

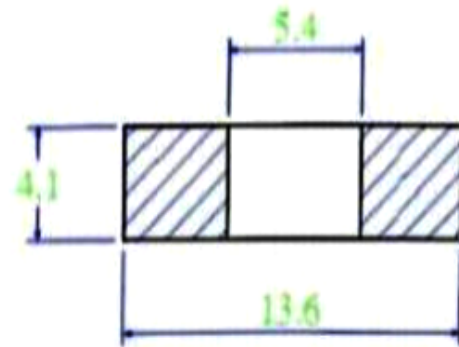
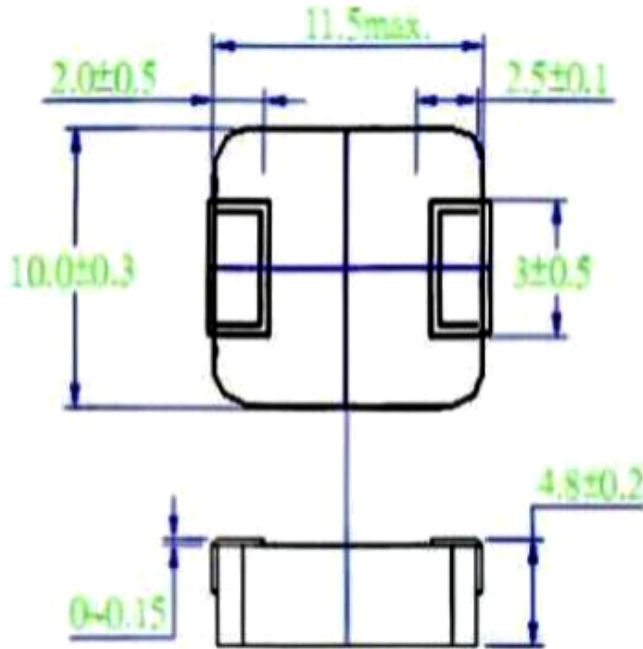
Description												
HCMA-1050-1R5-M				1.5μH				±20 %				
Model				Inductance Value				Inductance Tolerance				
Global Part Number												
H	C	M	A	1	0	5	0	1	R	5	M	
Product Series				Dimensions				Inductance Value				Tol.

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-1050-R22-M	0.22	0.7	0.9	35.0	57.0
HCMA-1050-R68-M	0.68	1.7	2.0	30.0	42.0
HCMA-1050-1R0-M	1.0	3.2	3.8	18.0	26.0
HCMA-1050-1R5-M	1.5	4.3	5.2	15.0	21.0
HCMA-1050-2R2-M	2.2	4.7	5.5	12.0	20.0
HCMA-1050-3R3-M	3.3	9.0	13.0	11.0	18.0
HCMA-1050-4R7-M	4.7	11.5	15.0	10.0	14.5
HCMA-1050-5R6-M	5.6	15.1	18.0	9.5	14.0
HCMA-1050-6R8-M	6.8	16.2	22.0	9.0	13.0
HCMA-1050-100-M	10.0	29.8	35.0	7.0	10.0
HCMA-1050-150-M	15.0	38.0	50.0	7.0	9.0
HCMA-1050-220-M	22.0	45.8	60.0	6.0	7.5
HCMA-1050-330-M	33.0	65.7	80.0	4.5	6.5
HCMA-1050-470-M	47.0	100.9	125.0	2.8	4.0
HCMA-1050-680-M	68.0	176.8	220.0	3.0	4.0
HCMA-1050-101-M	100.0	215.3	260.0	2.2	3.2
HCMA-1050-151-M	150.0	365.0	400.0	1.5	2.0

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