



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-0630-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



REVISION					
REV	DESCRIPTION	DATE	DESIGNED	CHECKED	APPROVED
A0	文件建立	2020/08/15	吕秀秀	Bowen	Darren

High Current, Power Inductors HCMA-0630-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

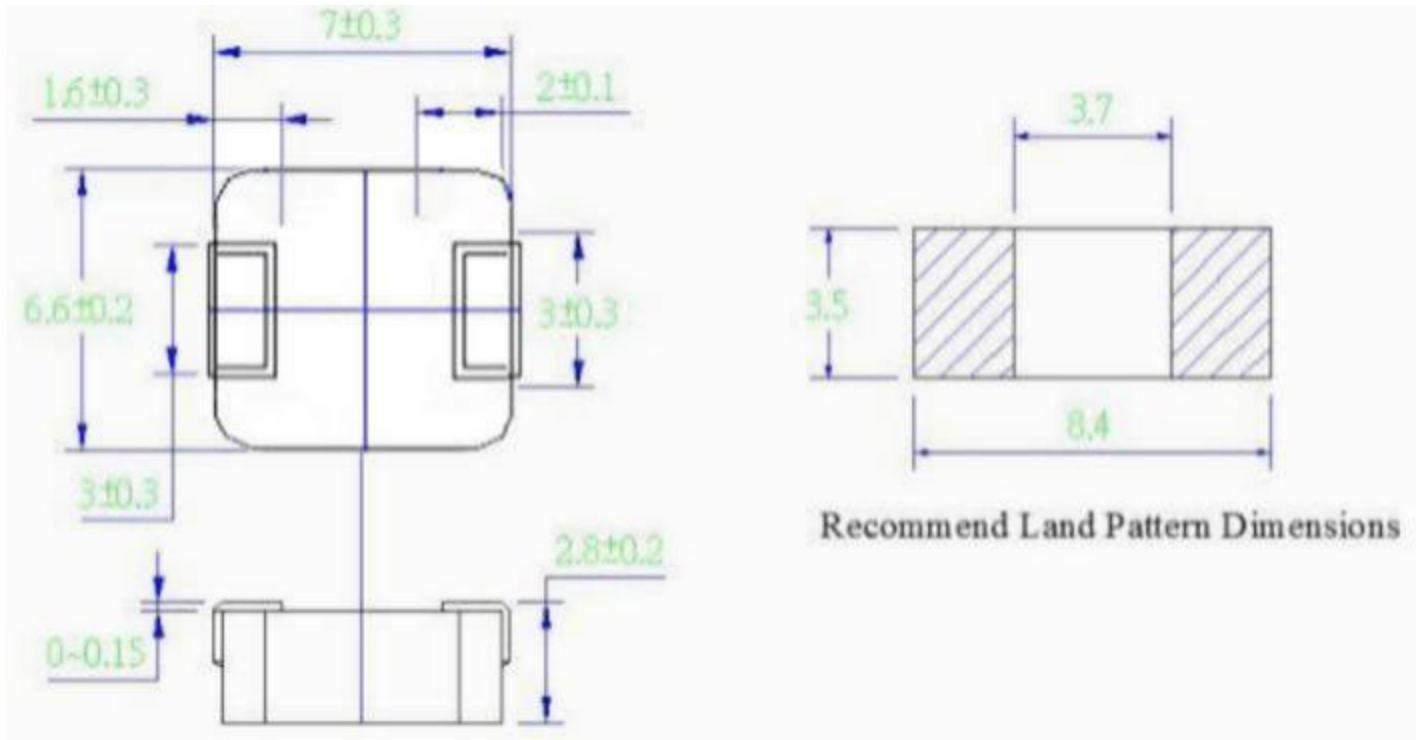
Description												
HCMA-0630-1R5-M				1.5μH				±20 %				
Model				Inductance Value				Inductance Tolerance				
Global Part Number												
H	C	M	A	0	6	3	0	1	R	5	M	
Product Series				Dimensions				Inductance Value			Tol.	

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-0630-R10-M	0.1	0.9	1.2	32.0	45.0
HCMA-0630-R12-M	0.12	1.0	1.35	30.0	40.0
HCMA-0630-R15-M	0.15	1.1	1.5	28.0	32.0
HCMA-0630-R22-M	0.22	2.5	3.0	24.0	32.0
HCMA-0630-R24-M	0.24	2.6	3.1	22.0	26.0
HCMA-0630-R33-M	0.33	3.3	4.0	19.0	25.0
HCMA-0630-R36-M	0.36	3.4	4.1	18.5	23.0
HCMA-0630-R47-M	0.47	3.5	4.2	18.0	20.0
HCMA-0630-R56-M	0.56	3.9	4.5	16.5	18.0
HCMA-0630-R68-M	0.68	4.8	5.8	15.0	17.0
HCMA-0630-R82-M	0.82	5.6	6.7	14.0	16.0
HCMA-0630-1R0-M	1.0	7.7	8.5	12.0	15.0
HCMA-0630-1R5-M	1.5	12.9	15.0	8.0	14.0
HCMA-0630-2R2-M	2.2	16.7	20.0	7.0	10.0
HCMA-0630-3R3-M	3.3	30.0	35.0	6.0	13.0
HCMA-0630-4R7-M	4.7	29.8	36.0	5.5	8.0
HCMA-0630-5R6-M	5.6	54.4	58.0	5.3	7.0
HCMA-0630-6R8-M	6.8	48.4	55.0	5.0	6.0
HCMA-0630-8R2-M	8.2	69.0	75.0	4.2	5.5
HCMA-0630-100-M	10.0	59.7	65.0	4.5	4.5
HCMA-0630-150-M	15.0	122.4	130.0	3.0	3.5
HCMA-0630-220-M	22.0	148.1	155.0	2.3	3.0
HCMA-0630-330-M	33.0	235.2	270.0	2.0	2.5
HCMA-0630-470-M	47.0	323.2	335.0	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 → 1R0

Note : Using Ink for marking