



# 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-0630K-XXX-M  
产品编号: \_\_\_\_\_  
日期: 2025-08-15

- 1、本承诺书的内容更改需经过双方确认，任何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。

核准	审核	制作
	Aaron	Ada

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-0630K-XXX-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 compliant

### Description

HCMA-0630K-R15-	0.15μH	±20 %
M Model	Inductance Value	Inductance Tolerance

### Global Part Number

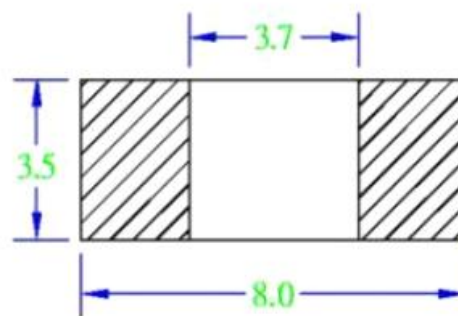
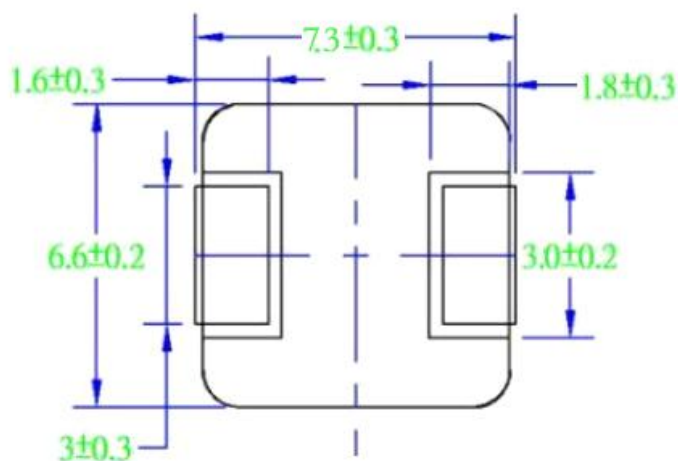
H	C	M	A	0	6	3	0	K	R	1	5	M
Product Series				Dimensions				shape	Inductance Value			Tol.

Part Number	Inductance L0 A(uH)	Heat Rating Current DC I rms.(A)		Saturation Current DCI sat. (A)		DCR (mΩ)Typ	DCR (mΩ)Max
		Typ	Max	Typ	Max		
HCMA-0630K-R15-M	0.15	38.0	33.0	45.0	41.0	0.9±5%	
HCMA-0630K-R22-M	0.22	23.0	21.0	34.0	32.0	2.0	2.5
HCMA-0630K-R33-M	0.33	21.0	20.0	25.0	22.0	2.8	3.4
HCMA-0630K-R47-M	0.47	18.0	16.0	20.0	18.0	3.4	4.0
HCMA-0630K-R68-M	0.68	16.0	14.5	17.0	15.0	4.7	5.3
HCMA-0630K-1R0-M	1.00	12.0	11.0	15.0	13.5	6.7	7.4
HCMA-0630K-1R5-M	1.50	10.0	9.00	14.0	12.0	10.2	12.1
HCMA-0630K-2R2-M	2.20	8.0	7.50	10.0	9.0	13.5	15
HCMA-0630K-3R3-M	3.30	6.50	6.00	9.5	8.5	19	22
HCMA-0630K-4R7-M	4.70	5.50	5.00	6.5	5.5	28	33
HCMA-0630K-6R8-M	6.80	4.50	4.20	6.0	5.0	43	50
HCMA-0630K-100-M	10.0	4.0	3.5	5.5	4.5	62	68
HCMA-0630K-150-M	15.0	3.0	2.5	4.5	4.0	110	140
HCMA-0630K-220-M	22.0	2.5	2.0	3.0	2.5	150	190
HCMA-0630K-330-M	33.0	2.1	1.8	2.5	2.0	215	258
HCMA-0630K-470-M	47.0	1.9	1.6	1.8	1.6	250	300

#### 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  $\Delta T$  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

