



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-1040-XXX-M-K
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	2025/08/15	吕秀秀	Bowen	Darren

High Current, Power Inductors HCMA-1040-XXX-M-K PowerChoke



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

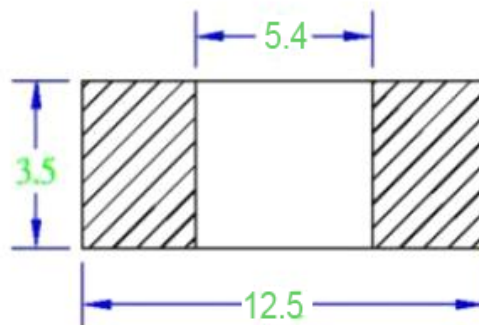
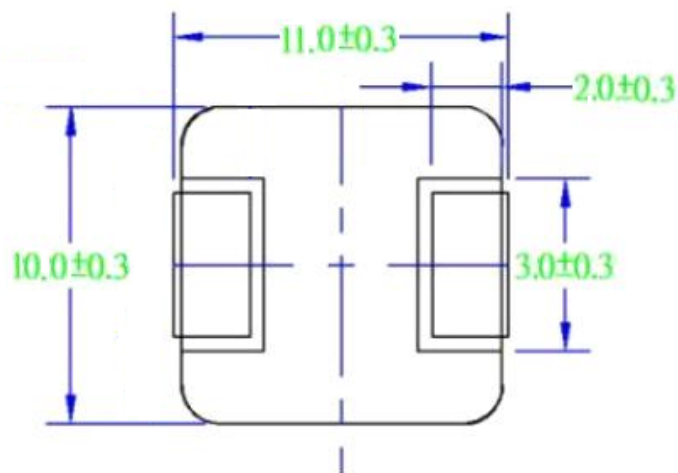
Description												
HCMA-1040-R15-M-K				0.15μH				±20 %				
Model				Inductance Value				Inductance Tolerance				
Global Part Number												
H	C	M	A	1	0	4	0	R	1	5	M	K
Product Series				Dimensions				Inductance Value		Tol.		shape

料 号	感值 LOA (uH)	温升电流 (A)		饱和电流(A)		直流电阻 (mΩ) Typ	直流电阻 (mΩ) Max
HCMA-1040-1R8-M-K	1.80	16.5	15.0	23.0	20.5	5.10	5.70
HCMA-1040-2R2-M-K	2.20	15.0	13.0	20.0	16.0	5.80	6.70
HCMA-1040-3R3-M-K	3.30	11.0	10.0	17.5	14.0	10.5	11.8
HCMA-1040-4R7-M-K	4.70	8.8	8.0	15.2	13.0	15.8	19.0
HCMA-1040-5R6-M-K	5.60	8.0	7.2	14.1	11.5	19.0	22.8
HCMA-1040-6R8-M-K	6.80	7.8	6.8	12.2	11.0	22.0	24.5
HCMA-1040-8R2-M-K	8.20	7.6	6.5	9.5	8.5	25.0	28.0
HCMA-1040-100-M-K	10.0	7.5	6.1	8.6	7.5	27.0	30.0
HCMA-1040-150-M-K	15.0	6.25	5.0	7.0	6.0	41.0	45.0
HCMA-1040-220-M-K	22.0	5.0	4.1	6.2	5.5	58.0	66.0
HCMA-1040-330-M-K	33.0	4.4	3.5	5.5	5.0	84.0	91.0
HCMA-1040-470-M-K	47.0	3.5	3.0	4.0	3.7	125	143
HCMA-1040-680-M-K	68.0	2.6	2.4	3.2	3.0	184	210
HCMA-1040-820-M-K	82.0	2.3	2.1	3.0	2.8	240	270
HCMA-1040-101-M-K	100	2.0	1.8	2.7	2.4	270	310

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

