



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

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。

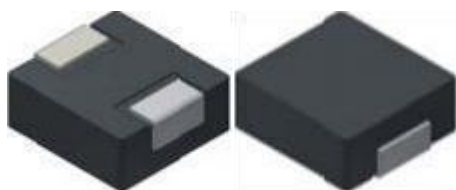
	审核	制作

批准	审核	检验



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-1040-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

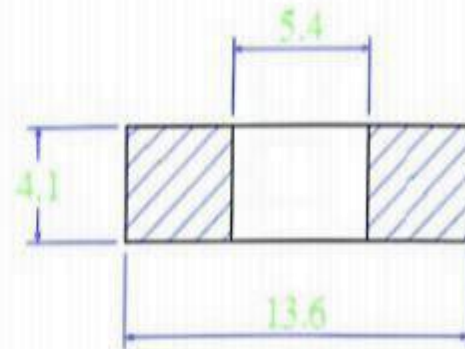
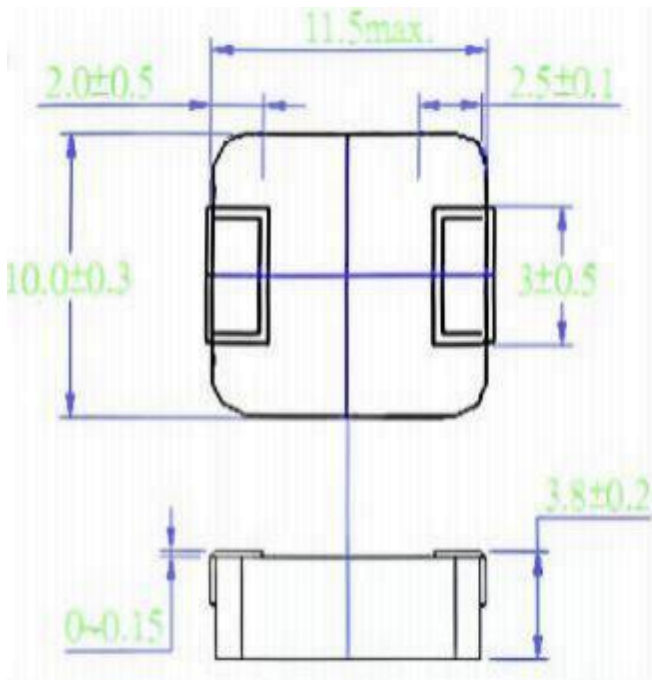
Description												
HCMA-1040-1R5-M				1.5μH				±20 %				
Model				Inductance Value				Inductance Tolerance				
Global Part Number												
H	C	M	A	1	0	4	0	1	R	5	M	
Product Series				Dimensions				Inductance			ValueTol.	

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-1040-R15-M	0.15	0.6	0.8	45.0	60.0
HCMA-1040-R22-M	0.22	0.9	1.2	35.0	50.0
HCMA-1040-R30-M	0.30	0.95	1.3	33.0	48.0
HCMA-1040-R36-M	0.36	1.05	1.5	31.0	45.0
HCMA-1040-R47-M	0.47	1.5	1.8	30.0	40.0
HCMA-1040-R56-M	0.56	1.7	2.3	24.0	33.0
HCMA-1040-R68-M	0.68	2.1	2.5	22.0	30.0
HCMA-1040-R80-M	0.80	2.6	3.0	20.0	29.0
HCMA-1040-R82-M	0.82	2.9	3.3	16.0	32.0
HCMA-1040-1R0-M	1.0	3.3	4.0	15.0	28.0
HCMA-1040-1R5-M	1.5	5.1	6.0	14.0	24.0
HCMA-1040-2R2-M	2.2	6.4	7.0	12.0	18.0
HCMA-1040-3R3-M	3.3	10.5	15.0	11.0	16.0
HCMA-1040-4R7-M	4.7	12.8	16.5	9.5	13.0
HCMA-1040-5R6-M	5.6	18.3	25.0	8.0	14.0
HCMA-1040-6R8-M	6.8	22.6	28.0	8.0	11.0
HCMA-1040-8R2-M	8.2	25.0	29.0	8.0	9.0
HCMA-1040-100-M	10.0	29.8	38.0	7.0	8.5
HCMA-1040-150-M	15.0	42.4	55.0	4.0	7.0
HCMA-1040-220-M	22.0	66.9	80.0	5.0	5.5
HCMA-1040-330-M	33.0	94.2	110.0	3.5	5.0
HCMA-1040-470-M	47.0	138.7	155.0	3.3	4.5
HCMA-1040-680-M	68.0	170.0	195.0	2.5	3.0
HCMA-1040-101-M	100.0	299.8	325.0	2.2	2.8

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

