

二合一模压式贴片功率电感—AMPR 系列

2in1 Molded SMD Power Inductor –AMPR Series



工作温度

Operating Temp

- ◆ $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including self-heating)

特征

Features

- ◆ 低损耗, 低 DCR
- ◆ 高性能
- ◆ 满足 AEC-Q200 要求
- ◆ Low loss with low DCR
- ◆ High Performance
- ◆ AEC-Q200 qualified

用途

Applications

- ◆ 智能座舱
- ◆ Intelligent Cockpit

产品型号

Product Identification

1

AMPR

2

0607

3

H

4

3R3

5

M

6

T

7

1

分类 Type

AMPR

车载模压贴片功率电感
Automotive Molded SMD
Power Inductor

3

特性类别 Feature Type

H

H Type

5

感量精度 Inductance Tolerance

M

±20%

6

包装 Packing

T

编带 Tape Carrier Package

2

外形尺寸 (L×W×H) [mm]
External Dimensions(L×W×H) [mm]

0607

6.9×7.6×7.3

1009

10.2×9.2×10.8

4

公称电感量 Nominal Inductance

例子 Example

感值 Nominal Value

3R3

3.3μH

4R7

4.7μH

6R8

6.8μH

100

10μH

220

22μH

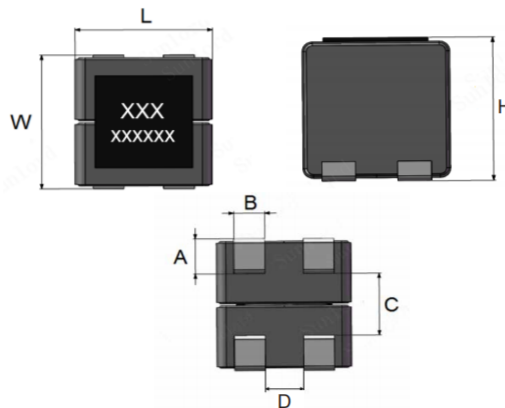
7

设计代码 Design Code

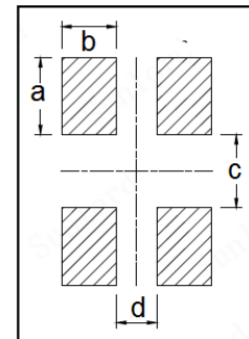
Standard product is blank

外观尺寸

Shape and Dimensions



推荐焊盘 Recommended Land Pattern



Unit: mm

Series	L	W	H	A	B	C	D	a	b	c	d
AMPR0607H	6.9±0.3	7.6±0.3	7.3±0.3	2.0±0.3	1.65±0.2	3.4ref.	1.6±0.2	3.2ref.	2.0ref.	3.55ref.	1.25ref.
AMPR1009H	10.2±0.3	9.2±0.3	10.8±0.3	2.6±0.3	2.5±0.2	4.3ref.	2.4±0.2	4.05ref.	2.85ref.	3.84ref.	2.1ref.

外观尺寸 Shape and Dimensions

AMPR0607H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current		耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Max.	Typ.	Typ.
单位 Units	μH	mΩ		A		A		VDC
符号 Symbol	L	DCR		Isat		Irms		/
AMPR0607H3R3MT	3.3±20%	19.2	16	11.1	13.0	5.1	5.7	75
AMPR0607H100MT	10.0±20%	51	43	5.8	6.8	3.2	3.5	
AMPR0607H150MT	15.0±20%	84	70	5	6.3	2.9	3.3	
AMPR0607H220MT	22.0±20%	134	112	3.7	4.2	2.0	2.2	

AMPR1009H Series

型号 Part Number	电感值 Inductance	直流电阻 DC Resistance		饱和电流 Saturation Current		温升电流 Heat Rating Current		耐压值 Withstanding Voltage
	100KHz/1V	Max.	Typ.	Max.	Typ.	Max.	Typ.	Typ.
单位 Units	μH	mΩ		A		A		VDC
符号 Symbol	L	DCR		Isat		Irms		/
AMPR1009H3R3MT	3.3±20%	8.6	7.5	23.4	26.0	8.0	9.0	75
AMPR1009H5R6MT	5.6±20%	15.9	13.3	17.2	21.5	7.3	8.2	
AMPR1009H100MT	10.0±20%	22	18	10.0	12.0	5.2	5.8	
AMPR1009H150MT	15.0±20%	38.6	32.2	8.2	10.3	5.1	5.7	
AMPR1009H220MT	22.0±20%	56	46	7.3	8.3	3.2	3.5	

注：※1: 额定电流: Isat(Max.) 或 Irms(Max.), 以较小数据为准。
 ※2: 饱和电流: Typ. 值: 电感比初始电感量下降约 30% 时, 所对应的直流电流的大小。
 ※3: 温升电流: 温度从 20℃ 环境温度上升 40℃ (ΔT) 时, 所对应的直流电流的大小。
 在最坏的操作条件下, 零件温度 (环境温度 + 温升) 不应超过 125℃。电路设计、元件放置、PCB 走线尺寸和厚度、气流和其他冷却规定都会影响零件温度。应在最终应用中验证零件温度。

Note: ※1: Rated current: Isat(Max.) or Irms(Max.), whichever is smaller.
 ※2: Saturation Current: Typ. Value, DC current @ which the inductance drops approximately 30% from its value without current;
 ※3: Heat Rating Current: DC current that causes an approximate ΔT of 40℃ from 20℃ ambient.
 The part temperature (ambient + temp. rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.