



深圳市佑驰电子有限公司

Specification for Approval

产品名称: 电感

规格型号: HPLA-201610-XXX-M

产品编号:

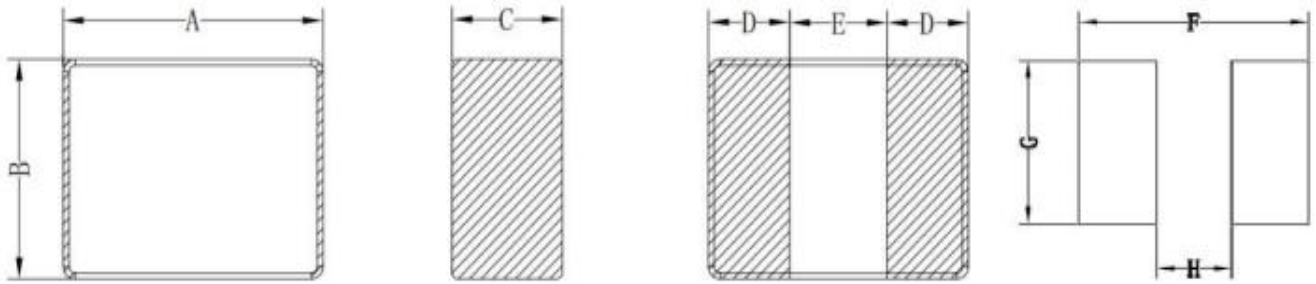
日期: 2026-05-08

- 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

CUSTOMER PART NO.	REV.	DA YOU PART NO. HPLA-201610-XXX-M	ISSUE DATE May.8.2026
PART NAME. MOLDING INDUCTOR		DA YOU REV. V1.0	USED ON.

1. 外观尺寸 Dimensions and Recommend PC Board Pattern (unit: mm) :



ITEM	A	B	C	D	E	F	G	H
SPEC	2.0±0.20	1.6±0.20	1.0 Max	0.5±0.30	0.8±0.30	2.3 typ	1.9 typ	0.8 typ

2. 产品特性 Characteristics:

Part No.	Inductance	DC Resistance		Saturation Current		Heat Rating Current	Withstanding Voltage
	1MHz/1V	Max.	Typ.	Max.	Typ.	Typ.	Typ.
Units	μH	mΩ		A		A	VDC
Symbol	L	DCR		Isat		Irms	/
HPLA-201610-R22-M	0.22±20%	18	13	6.0	6.5	6.5	20
HPLA-201610-R24-M	0.24±20%	20	17	6.0	6.5	6.0	20
HPLA-201610-R33-M	0.33±20%	23	18	5.5	6.0	5.5	20
HPLA-201610-R47-M	0.47±20%	29	23	4.8	5.2	4.8	20
HPLA-201610-R68-M	0.68±20%	45	35	4.3	4.7	3.6	20
HPLA-201610-1R0-M	1.00±20%	65	55	3.1	3.5	3.5	20
HPLA-201610-1R5-M	1.50±20%	90	75	2.5	3.0	2.82	20
HPLA-201610-2R2-M	2.20±20%	130	110	2.1	2.6	.0	20
HPLA-201610-3R3-M	3.30±20%	220	190	1.8	2.1	1.6	20
HPLA-201610-4R7-M	4.70±20%	270	242	1.5	1.7	1.4	20
HPLA-201610-100-M	10.0±20%	540	528	0.8	1.2	0.9	20

Note:

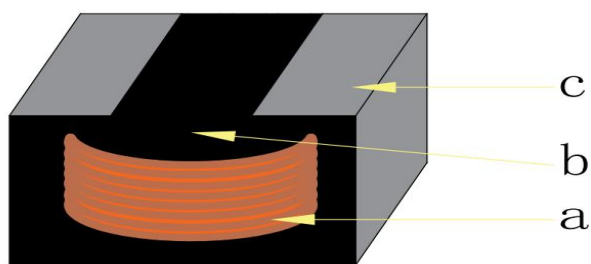
- (1) All test data is referenced to 25°C ambient.
- (2) When applying the heat rating current DC (I_{dc}) to coil, it will cause an approximate ΔT of 40°C.
- (3) When applying the saturation current DC (I_{sat}) to coil, it will cause the initial inductance value to drop 30% Typical.
- (4) Operating Temperature Range -40°C to +125°C.
- (5) Rated current: I_{sat} (Max.) or I_{rms} (Typ.), whichever is smaller.
- (6) Saturation Current: Typ. Value, DC current at which the inductance drops approximately 30% from its value without current;
- (7) Heat Rating Current: DC current that causes an approximate ΔT of 40°C from 20°C ambient.

3. 品名规则 Part Numbering:

HPLA	201610	1R0	M
(1)	(2)	(3)	(4)

(1) Series: HPLA = Surface Mounting Power Chokes (Molded Inductor)

(2) Dimension: 2016 = 2016 Series 10 = Product Height 1.0mm

(3) Inductance: R47 = 0.47 μ H 4R7 = 4.7 μ H 100 = 10 μ H(4) Inductance Tolerance: J = $\pm 5\%$ K = $\pm 10\%$ L = $\pm 15\%$ M = $\pm 20\%$ N = $\pm 30\%$ **4. 材料清单 Material List**

No.	项目 ITEM	材料 Materials
a	线 Wire	铜线 Copper wire
b	磁芯 Core	金属合金 Metal alloy
c	金属化电极 Terminal	锡 Sn

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5. 储存条件/注意的事项Storage conditions/Matters need attention**1、贮存温度、湿度条件:**

Storage temperature and humidity conditions;a、产品包装与载体:温度-10℃~+40℃,相对湿度低于60%

Product packing with carrier tape:-10℃~40℃ and less than 60% RH;b、单独的产品:温度-20℃~+60℃,相对湿度低于60%Product alone:-10℃~60℃ and less than 60% RH;c、产品在6个月内使用(注意:产品一经拆开包装,须尽快使用)Products should be used within 6 months.

(Note that the product should be used as soon as possible once it is folded);d、包装材料应保存在空气中不存在氯或硫的地方; The packaging material should kept where no chlorine or sulfur exists in the air;e、不要用手

指触摸电极(焊接端子),因为这可能导致焊接能力的下降; Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability;f、个别零件强烈建议使用镊子或真空取料机,

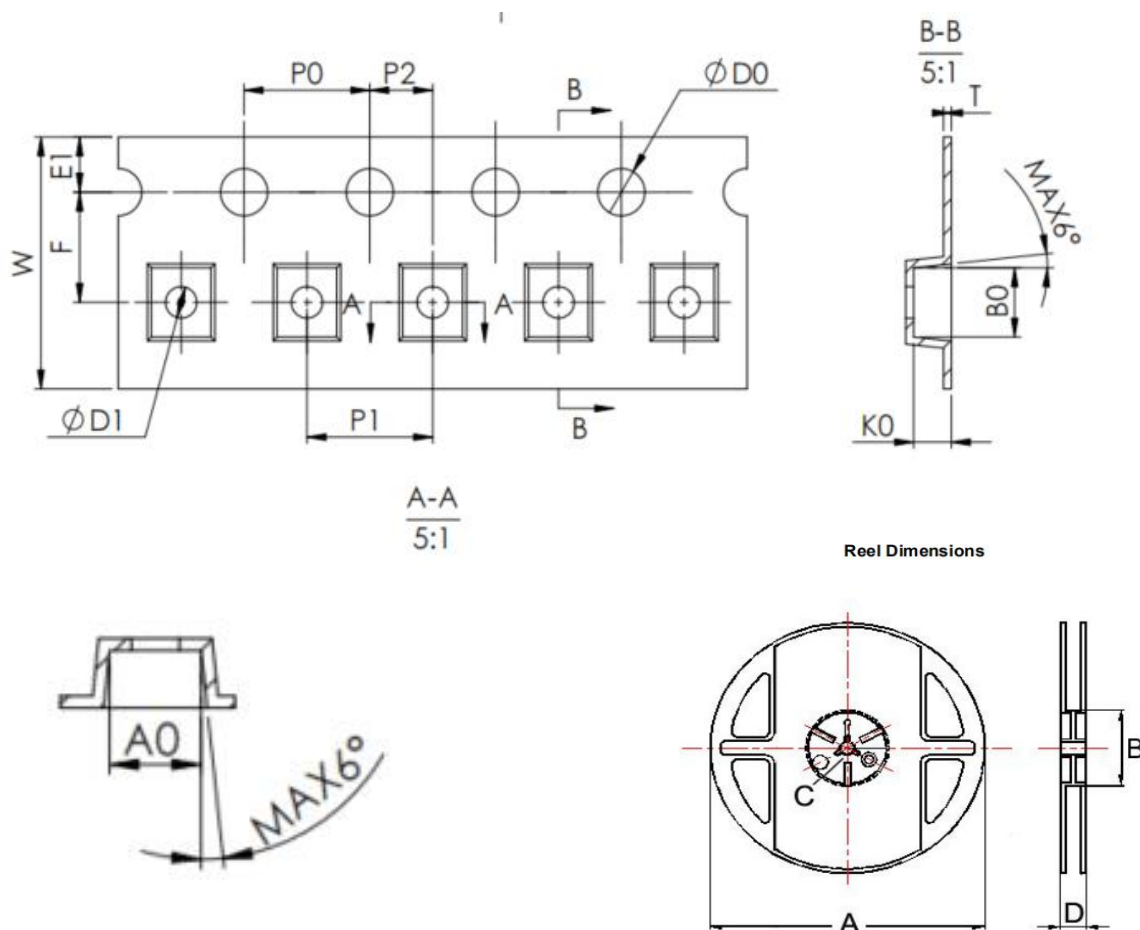
散装搬运应确保尽量减少磨损和机械冲击; The use of tweezers or vacuum pick-

ups is strongly recommended for individual components. Bulk handling

should ensure that abrasion and mechanical shock are minimized;

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6. 包装规范: Packaging Specifications



Tape Dimensions (mm)							Reel Dimensions (mm)				PCS/REEL
A0	B0	K0	T	W	P0	D0	A	B	C	D	
1.9±0.1	2.3±0.1	1.1±0.05	0.25±0.02	8±0.1	4±0.1	1.5±0.1	178	60	12	1.5	3000