

# 制品规格书

## SPECIFICATION FOR APPROVAL



产品编码 P/N	PDMTAT-Series	测试设备 TEST INSTRUMENT	Chroma: 3302 16502 Keysight: E4991
产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

客户名称  
Customer :

客户编码  
Customer P/N :

产品系列  
Series :

磁环功率电感  
Toroidal Inductor

产品编码  
Supply P/N :

PDMTAT-Series

发版号  
Version :

A2.1

承认日期  
Endorsement Date :

2025-11-30

备注  
Note :

谱罗德电子科技（深圳）有限公司 PuLuoDe Electronic Technology (Shenzhen) Co. LTD	
制作 APPROVED	Ben
审查 CHECKED	Yuki
确认 PREPARED	Peter

客户承认 Customer Approval

客户签章

\* 烦请贵司在正式订单下达前确认回签本承认书，否则敝司默认贵司认可本承认书内的参数与条款，并以此参数生产交货

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深圳市宝安区石岩三联工业区B栋311

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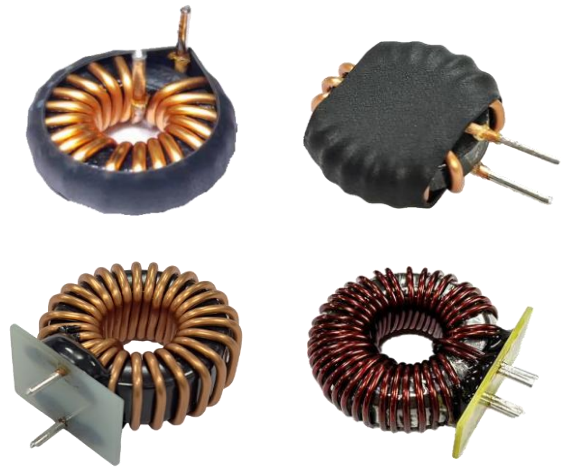
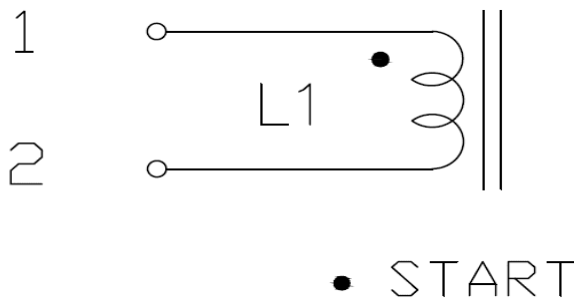
## 产品特点

## Features

- 多磁芯设计，铁硅铝/铁硅/合金等磁芯，满足不同电流/频率需求  
The material of the magnetic core can be selected according to the design requirements.
- 多种拓扑结构：卧式，立式，带底座，带底板，满足不同产品结构的设计需求  
The assembly form of the inductor can be changed according to the design requirements.
- 丰富的尺寸感量规格，满足不同电流需求，不同尺寸需求设计  
The inductance and size can be customized according to the design requirements.
- 高度自由化定制，可按照设计需求自由化定制，定制周期为1~5天  
The customization of the inductor takes 1 to 5 days.

## 电路图

## Schematic



## 编码解释

## Code interpretation

<b>PDMTAT</b>	<b>XXXXX</b>	-	<b>XXX</b>	<b>X</b>	<b>X</b>	<b>X</b>
类别码	尺寸系列		感值	精度	插件形式	组件形式
Category code	Dimension		Inductance	Tolerance	Shape	Subassembly

- 规格参数基于环境温度25°C取得，电感值随温度变化而改变，请务必将电感在25°环境下静置24小时后再测试电感量。  
All test Data is referenced to 25°C ambient,the inductance varies with the ambient temperature.Before testing the inductance, let the inductor rest in a 25° environment for 24 hours.
- 部分规格电感值给出的“+∞”，则意味着该规格不规定电感值上限；尺寸标识符“Ref”则代表该尺寸为参考值，无明确的正负公差  
∞=unlimited, Ref=It is merely a reference value and does not have positive or negative tolerance.  
电感工作环境温度：-40°C ~ 105°C  
Operating temperature range -40 °C to +105 °C
- 加载额定电流) 会使电感温度上升大约 40°C (电感初始温度+上升温度=电感最终温度)  
Typical rated current would cause an approximately ΔT of 40°C
- 务必考虑最终的产品设计，元器件布局，线路板走线，以及使用环境过程中，电感最终温度不得超过105°C  
The operating temperature of inductance do not exceed 105°C
- 使用电感时，请注意阅读最后一页的注意事项  
The announcements is on last page



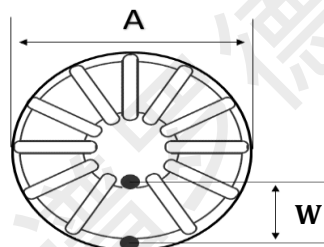
产品编码 P/N	PDMTAT-Series	测试设备 TEST INSTRUMENT	Chroma: 3302 16502 Keysight: E4991
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### 封装尺寸

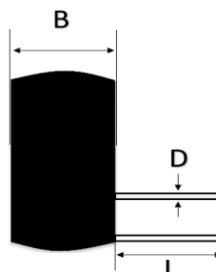
Dimension

(mm)

正视图  
front view



侧视图  
side view



系列 Series	封装尺寸 Dimension						MPQ	
	A	B	D	W	L	*		*
038125-卧式	13.0 Max	7.0 MAX	见下列“电气参数”		4.0 Min	*	*	500/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperture						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径 D	脚距 W
	Inductance	Tolerance	mΩ	A	Coil vs Core		
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT038125-220MWU	22	20%	22	5	600V	0.6±0.1	4.0 Ref
PDMTAT038125-330MWU	33	20%	35	3.5	600V	0.6±0.1	4.0 Ref

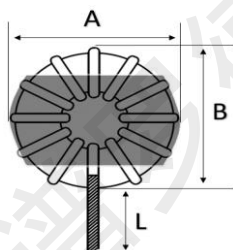


产品编码 P/N	PDMTAT-Series	测试设备 TEST INSTRUMENT	Chroma: 3302 16502 Keysight: E4991
产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

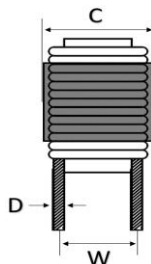
### 封装尺寸 Dimension

(mm)

正视图  
front view



侧视图  
side view



系列 Series	封装尺寸 Dimension						MPQ
	A	B	C	D	W	L	
038125-立式	13.0 Max	12.0 Max	7.0 Max	见下列“电气参数”	4.0 Min	*	500/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT038125-220MLU	22	20%	22	5	600V	0.6±0.1	5.0 Ref
PDMTAT038125-330MLU	33	20%	35	3.5	600V	0.6±0.1	5.0 Ref



产品编码 P/N	<b>PDMTAT-Series</b>	测试设备 TEST INSTRUMENT	<b>Chroma: 3302 16502</b> <b>Keysight: E4991</b>
产品系列 Series	<b>磁环电感</b>	测试频率 TEST FREQUENCY	<b>参考参数页面</b>

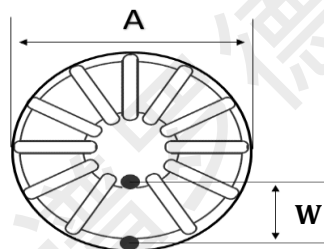
### 封装尺寸

Dimension

(mm)

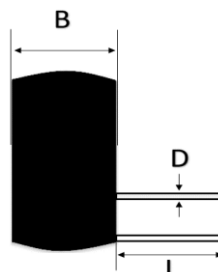
正视图

front view



侧视图

side view



系列 Series	封装尺寸 Dimension						MPQ	
	A	B	D	W	L	*		*
044125-卧式	14.5 Max	7.0 MAX	见下列“电气参数”		4.0 Min	*	*	300/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT044125-4R7MWU	4.7	20%	7.5	10	600V	0.8±0.1	5.5 Ref
PDMTAT044125-6R8MWU	6.8	20%	8	10	600V	0.8±0.1	5.5 Ref
PDMTAT044125-100MWU	10	20%	10	9	600V	0.8±0.1	5.5 Ref
PDMTAT044125-220MWU	22	20%	15	7	600V	0.8±0.1	4.5 Ref
PDMTAT044125-330MWU	33	20%	30	6	600V	0.7±0.1	4.5 Ref
PDMTAT044125-470MWU	47	20%	35	4.5	600V	0.55±0.05	5.5 Ref
PDMTAT044125-560MWU	56	20%	40	4	600V	0.55±0.05	4.5 Ref
PDMTAT044125-680MWU	68	20%	45	3.5	600V	0.55±0.05	4.5 Ref
PDMTAT044125-101MWU	100	20%	70	3	600V	0.5±0.05	4.5 Ref

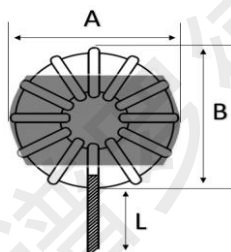


产品编码 P/N	<b>PDMTAT-Series</b>	测试设备 TEST INSTRUMENT	Chroma: 3302 16502 Keysight: E4991
产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

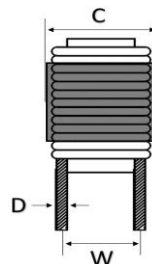
### 封装尺寸 Dimension

(mm)

正视图  
front view



侧视图  
side view



系列 Series	封装尺寸 Dimension						MPQ
	A	B	C	D	W	L	
044125-立式	16.0 Max	14.0 Max	8.5 Max	见下列“电气参数”	4.0 Min	*	300/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT044125-4R7MLU	4.7	20%	7.5	10	600V	0.8±0.1	5.0 Ref
PDMTAT044125-6R8MLU	6.8	20%	8	10	600V	0.8±0.1	5.0 Ref
PDMTAT044125-100MLU	10	20%	10	9	600V	0.8±0.1	5.0 Ref
PDMTAT044125-220MLU	22	20%	15	7	600V	0.8±0.1	5.0 Ref
PDMTAT044125-330MLU	33	20%	30	6	600V	0.7±0.1	5.0 Ref
PDMTAT044125-470MLU	47	20%	35	4.5	600V	0.55±0.05	5.0 Ref
PDMTAT044125-560MLU	56	20%	40	4	600V	0.55±0.05	5.0 Ref
PDMTAT044125-680MLU	68	20%	45	3.5	600V	0.55±0.05	5.0 Ref
PDMTAT044125-101MLU	100	20%	70	3	600V	0.5±0.05	5.0 Ref



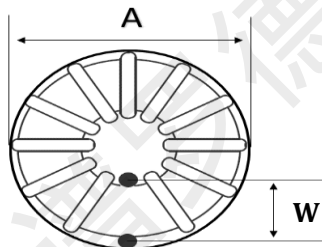
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产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

### 封装尺寸

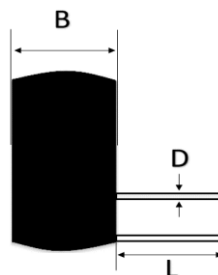
Dimension

(mm)

正视图  
front view



侧视图  
side view



系列 Series	封装尺寸 Dimension						MPQ	
	A	B	D	W	L	*		*
050125-卧式	18.0 Max	9.5 MAX	见下列“电气参数”		4.0 Min	*	*	200/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT050125-100MWU	10	20%	7.5	10	600V	1.0±0.1	7.0 Ref
PDMTAT050125-680MWU	68	20%	35	6	600V	0.7±0.1	7.0 Ref



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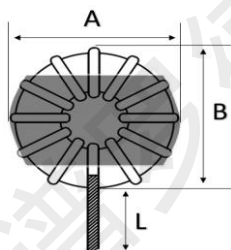
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产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

### 封装尺寸

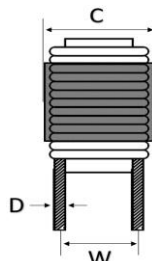
Dimension

(mm)

正视图  
front view



侧视图  
side view



系列 Series	封装尺寸 Dimension						MPQ
	A	B	C	D	W	L	
050125-立式	18.0 Max	16.0 Max	9.0 Max	见下列“电气参数”	4.0 Min	*	200/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT050125-100MLU	10	20%	5	18	600V	1.0 ±0.1	6.5 Ref
PDMTAT050125-220MLU	68	20%	35	6	600V	0.7 ±0.1	6.5 Ref



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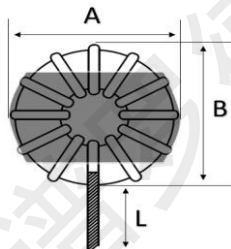


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产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

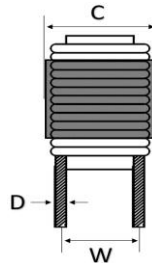
### 封装尺寸 Dimension

(mm)

正视图  
front view



侧视图  
side view



系列 Series	封装尺寸 Dimension						MPQ
	A	B	C	D	W	L	
068125-立式	23.0 Max	21.0 Max	12.0 Max	见下列“电气参数”	4.0 Min	*	50/袋

### 电气参数

Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT068125-100MLU	10	20%	5	18	600V	1.3 ±0.1	9.0 Ref
PDMTAT068125-220MLU	22	20%	8	16	600V	1.3 ±0.1	9.0 Ref
PDMTAT068125-330MLU	33	20%	10	14	600V	1.2 ±0.1	9.0 Ref
PDMTAT068125-470MLU	47	20%	12	13.5	600V	1.2 ±0.1	9.0 Ref
PDMTAT068125-680MLU	68	20%	19	10	600V	1.2 ±0.1	8.0 Ref
PDMTAT068125-101MLU	100	20%	26	8	600V	0.9 ±0.1	8.0 Ref
PDMTAT068125-151MLU	150	20%	40	6	600V	0.8 ±0.1	8.0 Ref
PDMTAT068125-221MLU	220	20%	50	5	600V	0.8 ±0.1	8.0 Ref

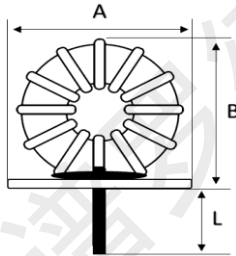


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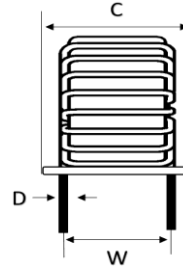
### 封装尺寸 Dimension

(mm)

正视图  
front view



侧视图  
side view

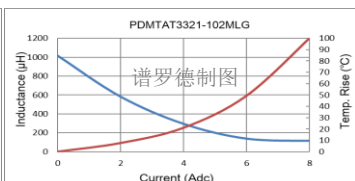
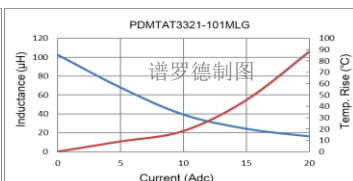
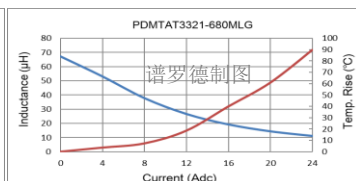
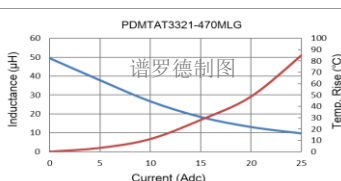
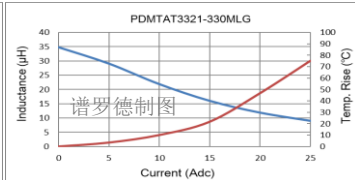
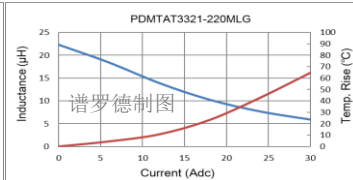
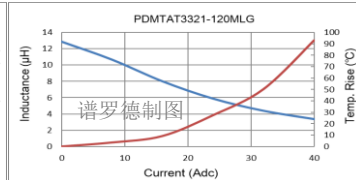
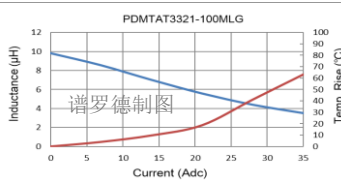


系列 Series	封装尺寸 Dimension							MPQ
	A	B	C	D	W	L	*	
3321-立式	33.0 Max	33.0 Max	21.0 Max	见下列“电气参数”		6.0±2	*	52/吸塑盒

### 电气参数

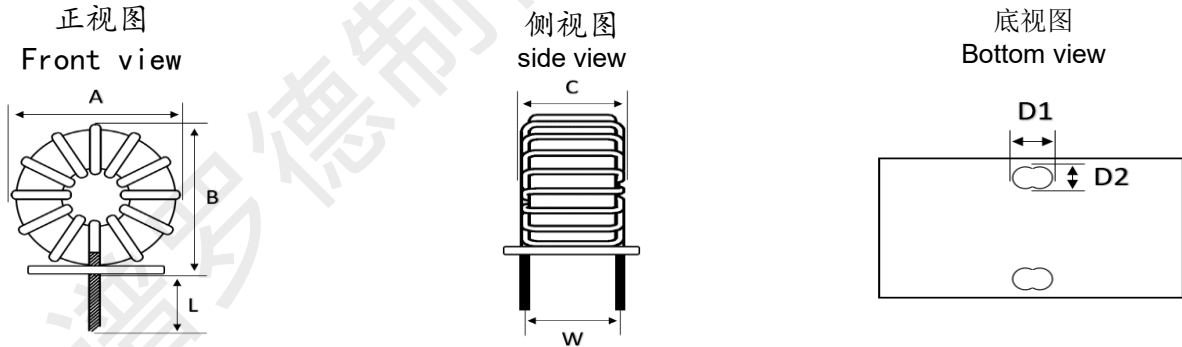
#### Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperture						
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径	脚距
	Inductance	Tolerance	mΩ	A	Coil vs Core	D	W
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	mm	mm
PDMTAT3321-100MLG	10	20%	4	28	600V	1.8±0.1	15.3±0.5
PDMTAT3321-120MLG	12	20%	4	27	600V	1.8±0.1	15.3±0.5
PDMTAT3321-220MLG	22	20%	5	22	600V	1.8±0.1	15.3±0.5
PDMTAT3321-330MLG	33	20%	7.5	17	600V	1.6±0.1	15.3±0.5
PDMTAT3321-470MLG	47	20%	8.5	16	600V	1.6±0.1	15.3±0.5
PDMTAT3321-680MLG	68	20%	9	15	600V	1.6±0.1	15.3±0.5
PDMTAT3321-101MLG	100	20%	13	13	600V	1.5±0.1	15.3±0.5
PDMTAT3321-102MLG	1000	20%	80	5	600V	1.0±0.1	15.3±0.5



产品编码 P/N	PDMTAT-Series	测试设备 TEST INSTRUMENT	Chroma: 3302 16502 Keysight: E4991
产品系列 Series	磁环电感	测试频率 TEST FREQUENCY	参考参数页面

### 封装尺寸 Dimension



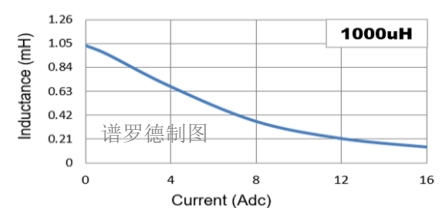
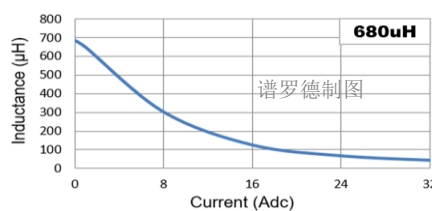
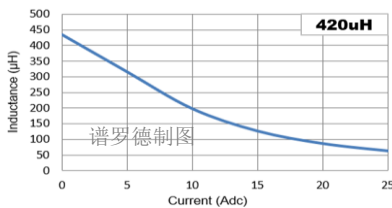
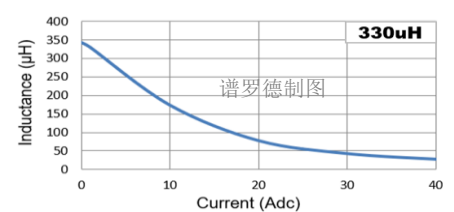
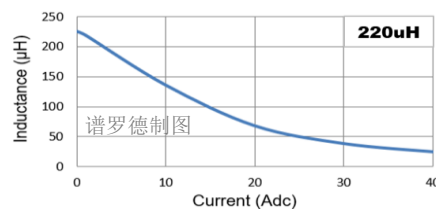
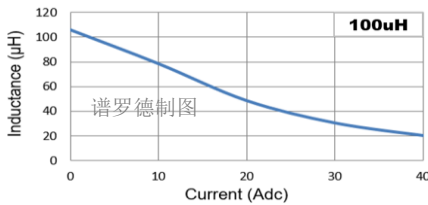
系列 Series	封装尺寸 Dimension							MPQ
	A	B	C	L	D1	D2	W	
5728-立式	55.0 Max	55.0 Max	28.0 Max	8.0±2.0	见下列“电气参数”			12/吸塑盒

### 电气参数

#### Electrical Characteristics

产品编码 P/N	@ 25 °C Ambient Temperature								
	感值	精度	DCR	额定电流 rated current	耐压 HI-POT	脚径		脚距 W	
	Inductance	Tolerance	mΩ	A	Coil vs Core	mm			
	μH @1KHz/0.3V	±	Max	ΔT≈40°C	AC/60Hz 1mA 3s	D1	D2	mm	
PDMTAT5728F-101MLG	100	20%	4.9	33	600V	3.6±0.3	1.8±0.3	20.0±1	
PDMTAT5728F-221MLG	220	20%	9	26	600V	3.2±0.3	1.6±0.3	20.0±1	
PDMTAT5728F-331MLG	330	20%	11	22	600V	3.2±0.3	1.6±0.3	20.0±1	
PDMTAT5728F-421MLG	420	20%	15	19	600V	3.1±0.3	1.5±0.3	20.0±1	
PDMTAT5728F-681MLG	680	20%	23	15	600V	2.7±0.3	1.3±0.3	20.0±1	
PDMTAT5728F-102MLG	1000	20%	32	11.5	600V	2.5±0.3	1.2±0.3	20.0±1	

#### Ls VS Current



产品编码 P/N	<b>PDMTAT-Series</b>	测试设备 TEST INSTRUMENT	<b>Chroma: 3302 16502</b>
产品系列 Series	<b>磁环电感</b>	测试频率 TEST FREQUENCY	<b>参考参数页面</b>

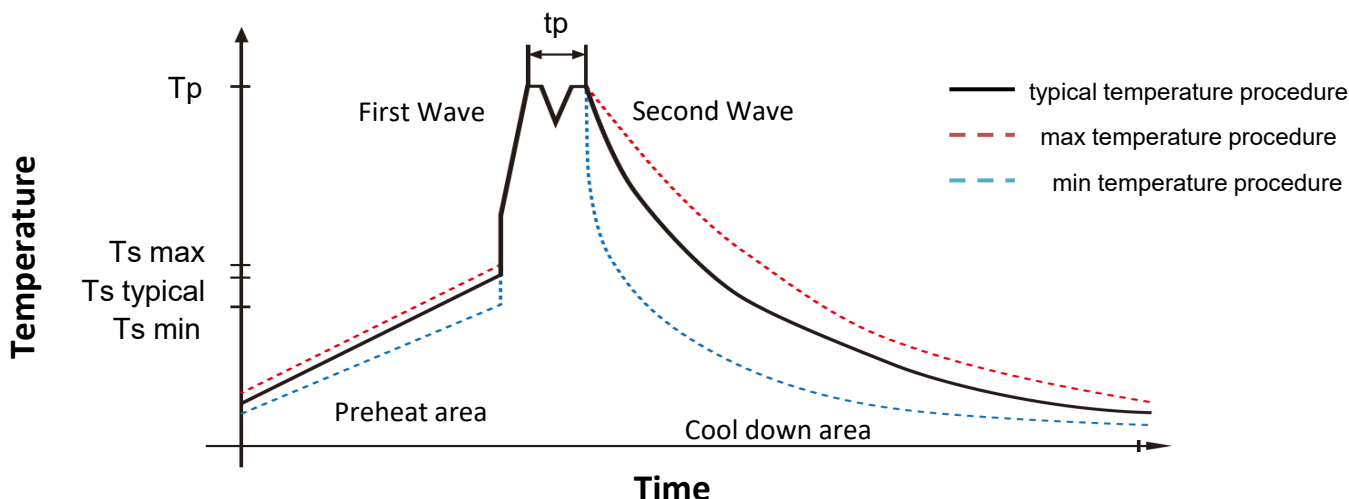
### 材料清单 Material List

NO.	材料 ITEM	材质规格 Material	制造商 Manufacturer
1	磁芯/Core	Fe-Si-Al Metallic material magnetic core	PROD (Or use the same specifications from another manufacturer)
2	漆包线/Wire	F 155°C/F 180°C	PACIFIC (Or use the same specifications from another manufacturer)
3	套管/Drivepipe	Environmentally friendly Drivepipe	WOER (Or use the same specifications from another manufacturer)
4	底板/底座/	Environmentally friendly epoxy resin	JINAN GUOJI (Or use the same specifications from another manufacturer)
6	锡条/Sn	LEAD FREE SOLDER	QIANDAO (Or use the same specifications from another manufacturer)
7	胶水/Glue	Environmentally friendly glue	LIDUO (Or use the same specifications from another manufacturer)

\*组件的材料不限制于清单内的制造商/The material of the part is not limited to the listed manufacturer

### 焊接温度（推荐）

#### Recommended Classification Wave Soldering Profile



Profile Feature	Item	Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_s \min$	100 °C	
Preheat Temperature Typical	$T_s \text{ typical}$	120 °C	
Preheat Temperature Max	$T_s \max$	130 °C	
Preheat Time $t_s$ from $T_s \min$ to $T_s \max$	$t_s$	70 seconds	
Ramp-up Rate	$\Delta T$	150 °C max.	
Peak Temperature	$T_p$	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	$t_p$	max. 10 seconds max. 5 seconds each wave	
Ramp-down Rate, Min		~ 2 K/ second	
Ramp-down Rate, Typical		~ 3.5 K/ second	
Ramp-down Rate, Max		~ 5 K/ second	
Time 25 °C to 25 °C		4 minutes	

\* 参考标准: EN61760-1:2006 refer standard to: EN61760-1:2006





## 注意事项

使用本产品时，请注意以下事项

- ◎ 产品保存期限为12个月，保存条件：温度5~40℃，湿度10~75%RH以内，超过保存期限可能会使元器件电极发生氧化，存储标准可参照：IEC\_61760-2-2021  
This components storage life is 12 months, Storage Temperature: TEMP.5~40℃; RH10%~75%. Please use this components within the warranty period. refer standard to: IEC\_61760-2-2021
- ◎ 请勿在极端环境下使用和保存（高盐，强酸，强碱，强辐射等）。  
Do not use this component in special environments, such as high salt content, strong acid, strong alkali, strong corrosion and other special environments.
- ◎ 元器件焊接前，请进行预热，预热与焊接温度之间温差建议控制在150℃以内；焊接标准参考：EN61760-1:2006  
Please preheat the product before welding; it is recommended to control the preheating temperature and welding temperature within 150℃. refer standard to: EN61760-1:2006
- ◎ 元器件焊接后需重新拆卸焊接修正时，请遵循规格书规定的条件范围；过高的加热温度以及反复的拆卸可能会导致元器件失效。  
When repairing this component, the temperature used for disassembly should not exceed the datasheet limit and do not disassemble it frequently to prevent damage to the component.
- ◎ 请勿用清洗剂、丙酮等腐蚀性液体接触该元器件，这可能会侵蚀元器件本体以至于失效。  
Do not use acetone or other corrosive liquids to contact this component or it will cause it to fail.
- ◎ 元器件焊接到线路板后，请注意不可因线路板整体变形或局部变形而施加给电感剩余应力，这可能会导致元器件脱落、破损失效。  
When this component is soldered to the circuit board, you need to pay attention to the stress applied to it by the PCB, which may cause it to fall off or damaged fail.
- ◎ 元器件通电后温度会随电流的增大而上升，设计时请务必考虑留有余量。  
Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- ◎ 过高的静电会损坏该元器件，请注意静电防护。  
Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- ◎ 本元器件作为磁性产品，设计时请务必考虑周边元器件与本产品可能产生的耦合效应影响。  
This magnetic component needs to be considered for coupling effects in the application.
- ◎ 谱罗德并不能完全掌握或熟悉客户的特定应用以及要求，贵司有责任和义务验证此元器件以及元器件规格书中的描述是否满足于贵司的设计要求；需要指出是：即使按照现有的技术标准操作，该元器件依然有几率在典型寿命结束前发生故障，谱罗德强烈建议贵司对于该元器件在一些典型的严苛应用中，例如安规产品，工业产品、医疗产品、车载产品、航空/航天等产品应用，对于该元器件可能存在的失效情况做适当的冗余设计，以此避免该元器件在失效时造成严重后果；特别提醒：对于特定的应用对象谱罗德强烈要求贵司同谱罗德取得书面的许可，否则谱罗德不予承担元器件失效带来的任何责任，特定对象包括且不限于：车用，航空航天，安规产品，军用以及贵司对元器件有严苛要求的产品。  
PROD cannot fully understand and be familiar with customers' specific applications and requirements. Your company has the responsibility and obligation to verify whether the components and the description in the component specification meet your design requirements. Special reminder: Even if operated in accordance with existing technical standards, this component still has a chance of failure before the end of its typical life. PROD strongly recommends that your company make appropriate redundant designs for possible failure situations of this component in some typical harsh applications, such as safety products, industrial products, medical products, automotive products, aviation/aerospace products, etc., so as to avoid serious consequences when the component fails.  
**PROD Requirements:** For specific application item, PROD strongly requires your (or company) to obtain written permission from PROD, otherwise PROD will not bear any responsibility for component failure. Specific item list include but are not limited to: automotive, aerospace, safety products, military and products that your company has strict requirements on components.



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