

產品編碼 P/N	PDPQAA3228-330MP	測試設備 TEST INSTRUMENT	Chroma:3302 16502
產品系列 Series	扁平线大电流电感	測試頻率 TEST FREQUENCY	100KHZ / 1V

客戶名稱

Customer

客戶編碼

Customer P/N

產品系列

Series

扁平线大电流电感

DIP Molding Power Inductor

產品編碼

Supply P/N

PDPQAA3228-330MP

發版號

Version

A2.0

承認日期

Endorsement Date

2026-6-8

備註

Note

譜羅德電子科技（深圳）有限公司 PuLuoDe Electronic Technology (Shenzhen) Co. LTD	
製作 APPROVED	Ben
審查 CHECKED	Yuki
確認 PREPARED	Peter

* 煩請貴司在正式訂單下達前確認回簽本承認書，否則敝司默認貴司認可本承認書內的參數與條款，並以此參數生產交貨

Please confirm and sign this acknowledgement letter before placing the formal order, otherwise PROD will acquiesce that your company recognizes the parameters and terms in this acknowledgement letter, and will produce and deliver according to these parameters.

客戶承認

Customer Approval

客戶簽章

修訂記錄

REVISION RECORD



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[illegible]

谱罗德
PROD

更多规格请访问谱罗德官方网站
下载或者扫描二维码通过微信小程序获取

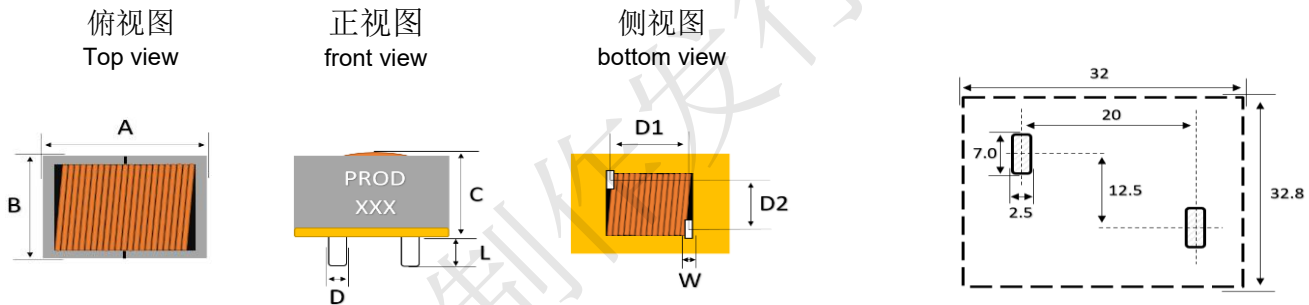
<http://www.prodtech.cn/>



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封裝尺寸 (mm)

焊盤尺寸 Recommened Land Pattern



系列 series	封裝尺寸 Dimension								最小包裝 MPQ
	A	B	C	D	L	W	D1	D2	
3228	32.8 Max	32 Max	28.5 Max	6.0±0.2	5.0±0.5	1.2±0.2	20±0.5	12.5±0.5	30pcs/盒

編碼解釋

Code interpretation

P D E Q A A	3 2 2 8	-	3 3 0	-	M	-	P
類別碼	尺寸系列		感值		精度		标识碼
Category code	Dimension		Inductance		Tolerance		PROD

電氣參數

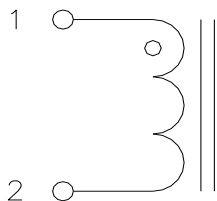
Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值 Inductance	精度 Tolerance	DCR		溫升电流 IRMS	饱和电流 ISAT
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0drop≈30%
PDPQAA3228-330MP	33	20%	2.4	2.7	36	40

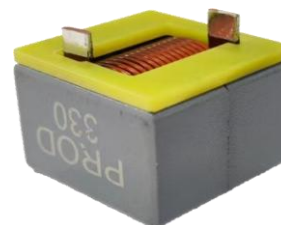
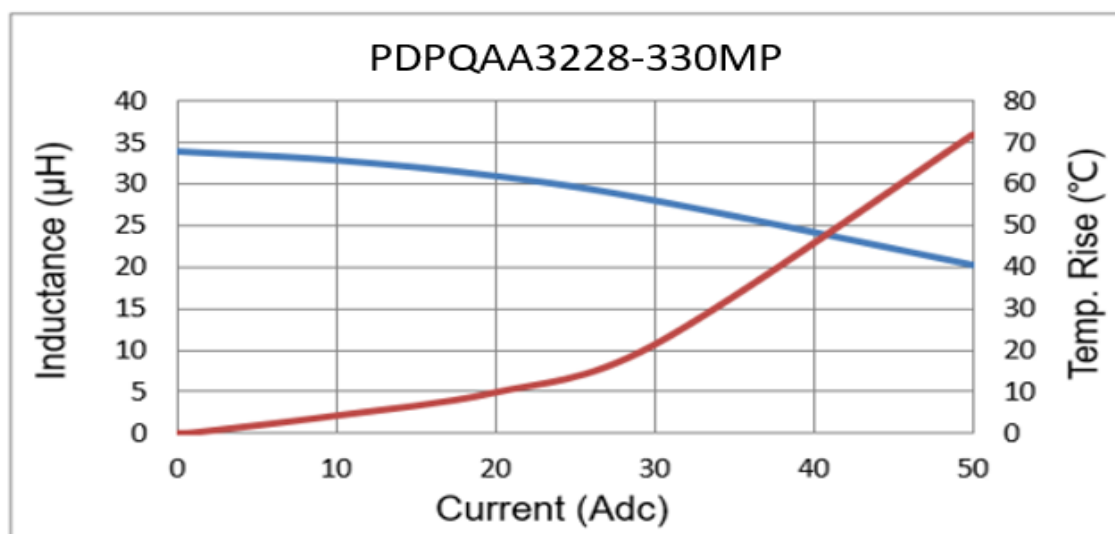
- ◎ 規格參數基於環境溫度25℃取得
All test Data is referenced to 25°C ambient
- ◎ 電感工作環境溫度：-40℃ ~ 125℃
Operating temperature range -40 °C to +125 °C
- ◎ 加載溫升電流（I_{rms}）會使電感溫度上升大約 40℃（電感初始溫度+上升溫度=電感最終溫度）
Typical I_{rms} would cause an approximately ΔT of 40°C
- ◎ 加載飽和電流（ISAT）會使感量下降大約30%
Typical ISAT would cause L₀ to drop approximately 30%.
- ◎ 請從溫升電流（IRMS）和飽和電流（ISAT）中選取一個最小值作為額定電流
Choose a minimum from IRMS and ISAT as the rated current
- ◎ 參考產品開發設計實測尺寸，感值，DCR等數據，請參考規格書第7頁
The Dimension, Inductance, DCR test data is on page 7
- ◎ 使用電感時，請查閱第8頁注意事項
The announcements is on page 9



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电路结构
Connections

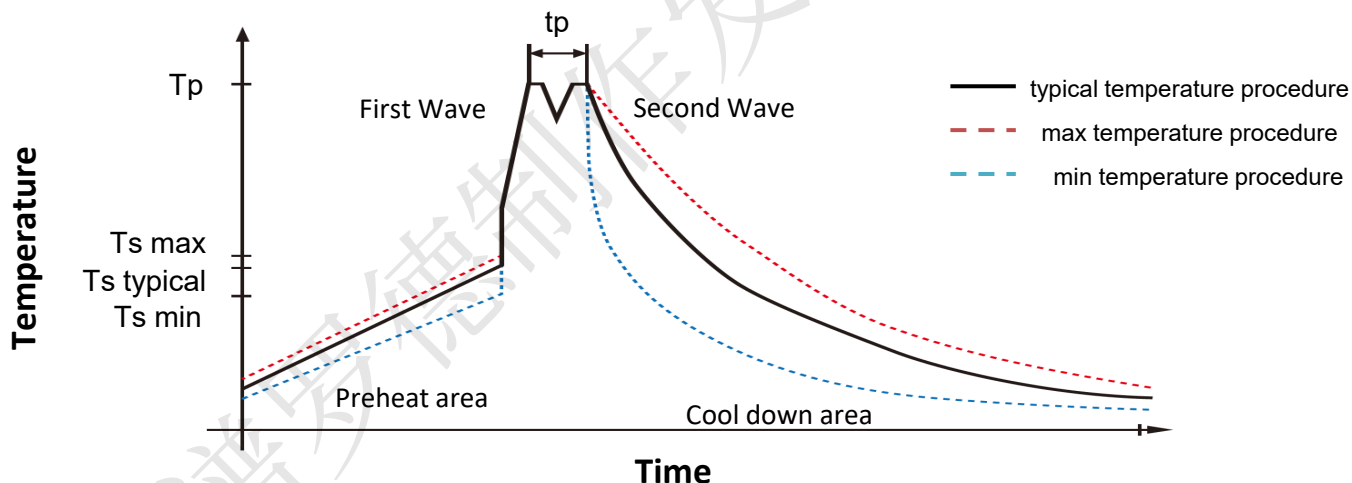
◎ 电感内置一组线圈
Inductor Contents ONE (1) Set(s) of Coil

图示
image特性曲线
Performance Curves

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焊接温度（推荐）

Recommended Classification Wave Soldering Profile



Profile Feature	Item	Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_s \text{ min}$	100 °C	
Preheat Temperature Typical	$T_s \text{ typical}$	120 °C	
Preheat Temperature Max	$T_s \text{ max}$	130 °C	
Preheat Time t_s from $T_s \text{ min}$ to $T_s \text{ max}$	t_s	70 seconds	
Ramp-up Rate	ΔT	150 °C max.	
Peak Temperature	T_p	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 secondsmax. 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	

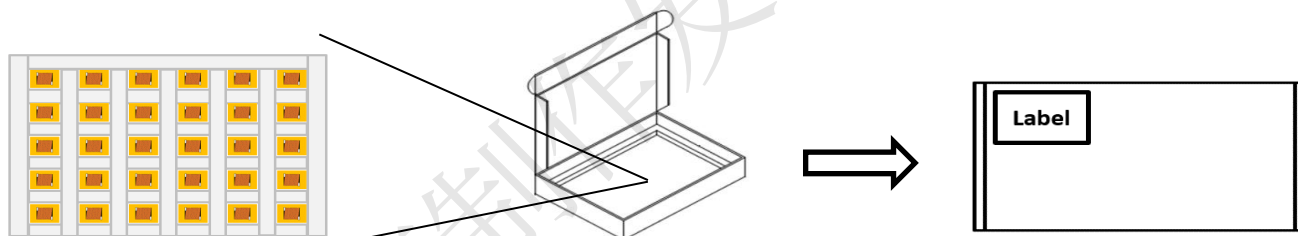
* 参考标准: EN61760-1:2006 refer standard to: EN61760-1:2006



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内盒包装

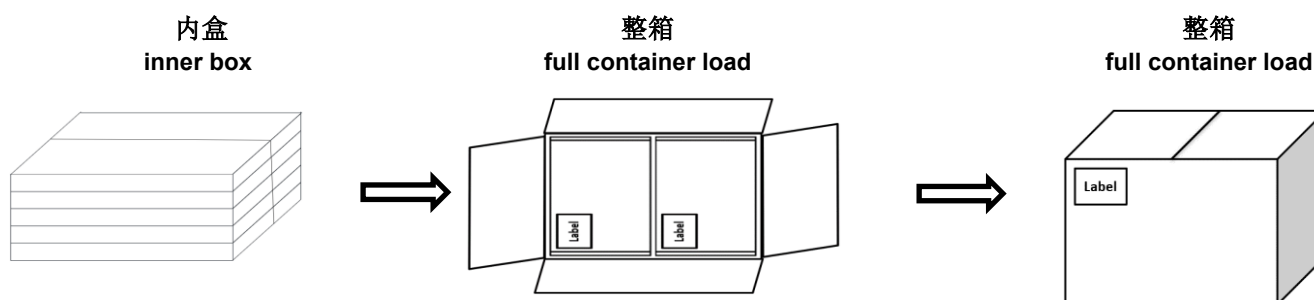
MPQ packaging



使用吸塑盒包装，每盒30pcs
MPQ=1000pcs, Packing in plastic trays

外箱

full container load



每箱内装4小盒，每箱数量120pcs
4 little boxes fill a whole case, 120pcs/full container load

尺寸与重量

Size and Weight

	单颗产品 single	内盒 inner box	整箱 full container load
尺寸 Size	N.A	25x24.5x1.8 cm	31x28x3.8 cm
净重 net weight	136g	4.08 kg	16.32kg
毛重 gross weight	N.A	4.2 kg	16.5kg



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.

