



产品编码 P/N	PSBHAA3020~9030-series	测试设备 TEST INSTRUMENT	Keysight:E4991B Chroma:16502 3302
产品系列 Series	贴片磁珠 (超大电流)	测试频率 TEST FREQUENCY	参考规格参数内定义

客户名称

Customer

:

客户编码

Customer P/N

:

产品系列

Series

:

贴片磁珠 (超大电流)

SMD Bead (High Current)

产品编码

Supply P/N

:

PSBHAA3020~9030-series

发版号

Version

:

A2.0

承认日期

Endorsement Date

:

2025-10-24

备注

Note

:

谱罗德电子科技(深圳)有限公司 PROD 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



谱罗德电子科技(深圳)有限公司

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A2.0

修订记录

REVISION RECORD

RoHS

compliant

REACH

compliant

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Version	REVISION ITEM	BEFORE REVISION	AFTER REVISION	DATE
A2.0	First Version			2025-10-24

谱罗德

PROD

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编码解释

Code interpretation

PSBHAA	XXXX	XXX	-	TXXX
类别码	尺寸系列	阻抗		额定电流
Category code	Dimension	Impedance		Rated Current

- 规格内参数基于环境温度25℃取得
All test Data is referenced to 25℃ ambient
- 电感工作环境温度：-40℃ ~ 125℃
Operating temperature range -40 °C to +125 °C
- 加载温升电流 (Irms) 会使电感温度上升大约 40℃ (电感初始温度+上升温度=电感最终温度)
Typical Irms would cause an approximately ΔT of 40℃
- 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125℃
The operating temperature of inductance do not exceed 125℃
- 使用电感时，请查阅最后一页注意事项
The announcements is on last page

封装尺寸

Dimension

(mm)



系列 Series	封装尺寸 Dimension					最小包装 MPQ pcs/盘
	A	B	C	D	E	
3020	3.1 ± 0.3	2.9 ± 0.3	2.5 Max	1.5 ± 0.5	1.25 ± 0.2	1000
4030	4.7 ± 0.3	3.1 ± 0.3	3.2 Max	1.5 ± 0.5	1.25 ± 0.2	500
453130	4.5 ± 0.3	3.1 ± 0.3	3.0 Max	1.35 ± 0.3	1.25 ± 0.2	500
9030	9.0 ± 0.4	3.1 ± 0.3	3.1 Max	1.5 ± 0.5	1.25 ± 0.2	500

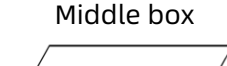
装箱数量:

Package Quantity

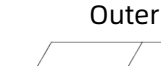
卷盘
MPQ



内盒
Middle box



外箱
Outer box



系列 Series	卷盘 MPQ	内盒 Middle box	外箱 Outer box
3020	1000pcs	5000pcs	50000pcs
4030	1000pcs	5000pcs	50000pcs
9030	500pcs	2500pcs	25000pcs

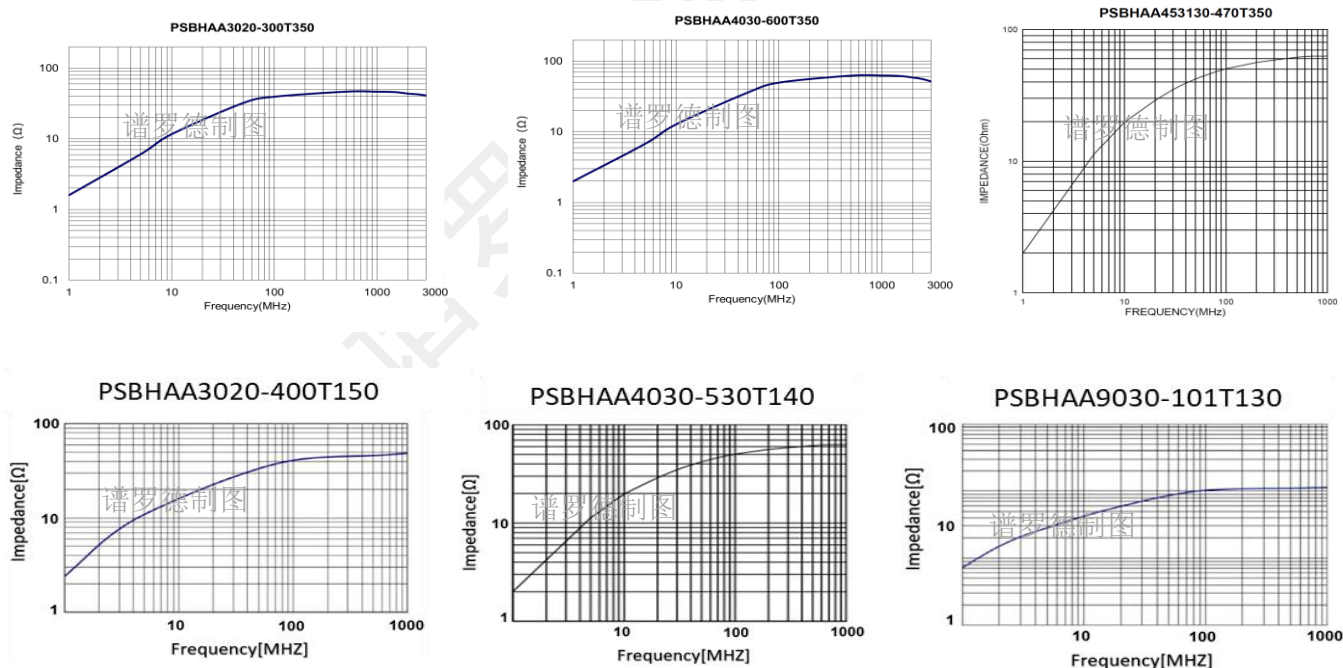
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3020~9030 Series

产品编码 P/N	@ 25 °C Ambient Temperture					
	阻抗	公差	测试频率	DCR	额定电流 Rated Current	耐压 HI-POT
	Impedance	Tolerance	Test Frequency	mΩ	A	Coil vs Core
	Ω	±	MHz	Max	ΔT≈40°C	AC/60Hz1mA 3Sec
PSBHAA3020-300T350	30	35%	50	0.6	35	125V
PSBHAA3020-400T150	40	35%	100	0.6	15	125V
PSBHAA4030-530T140	53	35%	100	0.6	14	125V
PSBHAA453130-470T350	47	35%	100	0.6	35	125V
PSBHAA4030-600T350	60	35%	200	0.6	35	125V
PSBHAA9030-101T130	100	35%	100	1	13	125V

特性曲线

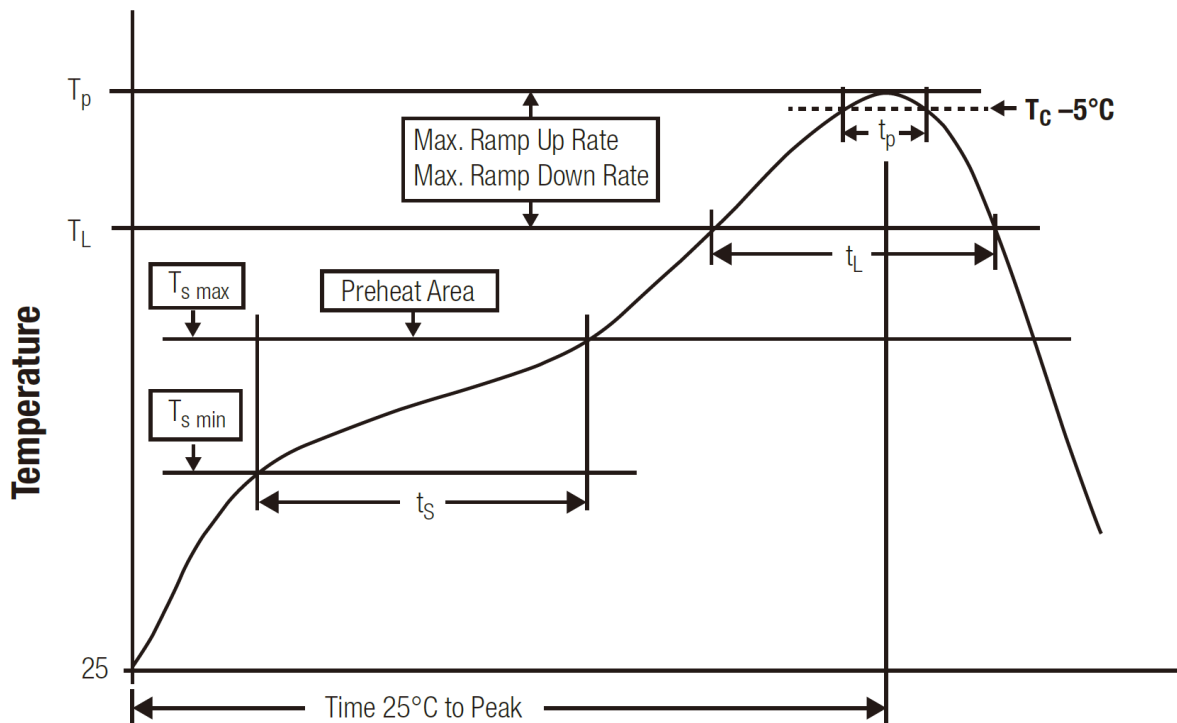
Performance Curves



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焊接温度 (推荐)

Recommended Classification Wave Soldering Profile



Clas

Profile Feature	Time Item	Value
Preheat Temperature Min	Ts min	150 °C
Preheat Temperature Max	Ts max	200 °C
Preheat Time ts from Ts min to Ts max	ts	60 - 120 seconds
Ramp-up Rate (TL to TP)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time tL maintained above TL	tL	60 - 150 seconds
Peak package body temperature	TP	TP ≤ Tc, see Table below
Time within 5°C of actual peak temperature	tp	20 - 30 seconds
Ramp-down Rate (TP to TL)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

Package Classification Reflow Temperature (Tc):

Properties	Volume mm³ <350	Volume mm³ 350-2000	Volume mm³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260°C	260°C	260°C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly Package Thickness > 2.5 mm	250°C	245°C	245°C

* 参考标准: IPC/ JEDEC J-STD-020E refer standard to: IPC/ JEDEC J-STD-020E





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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