

產品編碼 P/N	PDSH-series	測試設備 TEST INSTRUMENT	Chroma:3302 16502
產品系列 Series	色环电感	測試頻率 TEST FREQUENCY	1KHZ / 0.25V

客戶名稱 Customer	:	:
客戶編碼 Customer P/N	:	:
產品系列 Series	:	色环电感
產品編碼 Supply P/N	:	PDSH-series
發版號 Version	:	A2.0
承認日期 Endorsement Date	:	2022-9-16
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

客戶承認 Customer Approval

客戶簽章



修訂記錄
REVISION RECORD



產品編碼 P/N	PDSH-series	測試設備 TEST INSTRUMENT	Chroma:3302 16502
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Version	REVISION ITEM	BEFORE REVISION	AFTER REVISION	DATE
A1.0	首次發行			2022-9-16



譜羅德電子科技（深圳）有限公司
PuLuoDe Electronic Technology (Shenzhen) Co., LTD
深圳市寶安區石岩三聯工業區B棟311

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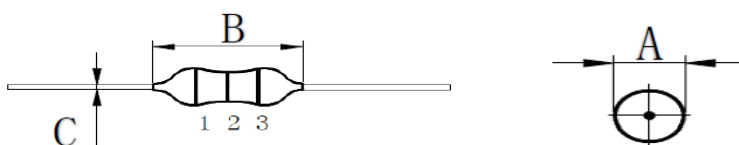
產品編碼 P/N	PDSH-series	測試設備 TEST INSTRUMENT	Chroma:3302 16502
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編碼解釋

Code interpretation

PDSH	-	0512I	-	472	-	K
類別碼		尺寸系列		感值		精度
Category code		Dimension		Inductance		tolerance

封裝尺寸 (mm)
Dimension



系列	封裝尺寸 Dimension			MPQ
Series	A	B	C	pcs/袋
0307	Ø3.2 Max	7.0 Max	Ø0.50±0.1	3000pcs
0410	Ø4.0 Max	10.0 Max	Ø0.55±0.05	2000pcs
0512	Ø5.0 Max	12.5 Max	Ø0.55±0.05	1000pcs

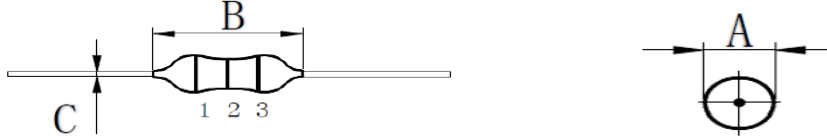
- © 规格参数基于环境温度25℃所得
All test Data is referenced to 25℃ ambient
- © 加载額定电流会使产品本体温度大约上升 40℃ (电感初始温度+上升温度=电感最终承受温度)
Typical Rated Current would cause an approximately ΔT of 40℃
- © 电感工作环境温度：-25℃ ~ 85℃
Operating temperature range -25 °C to +85 °C
- © 务必考虑最终产品设计，元器件布局，线路板走线，以及使用环境等过程中，电感本体最高温度不得超过85℃
The operating temperature of inductance do not exceed 85℃
- © 产品注意事项请参阅规格书第9页
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封装尺寸 (mm)
Dimension



系列	封装尺寸 Dimension			MPQ
Series	A	B	C	pcs/袋
0307	Ø3.2 Max	7.0 Max	Ø0.50±0.1	3000pcs

電氣參數

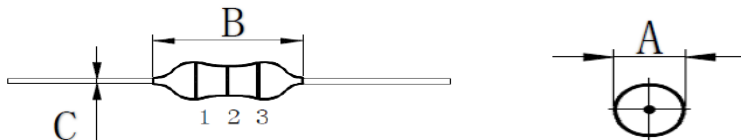
Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature				
	感值	精度	額定電流	自諧頻率	DCR
	Inductance	tolerance	Rated current	S. R. F	Ω
	µH	(±)	mA	MHZ	Max
			△T≈40°C		
PDSH03071-1R0M	1	20%	740	150	0.15
PDSH03071-1R5M	1.5	20%	700	150	0.2
PDSH03071-2R2M	2.2	20%	630	110	0.27
PDSH03071-3R3M	3.3	20%	575	70	0.3
PDSH03071-4R7M	4.7	20%	530	50	0.35
PDSH03071-5R6M	5.6	20%	500	32	0.4
PDSH03071-6R8M	6.8	20%	470	28	0.48
PDSH03071-8R2M	8.2	20%	425	23	0.56
PDSH03071-100M	10	20%	370	22	0.75
PDSH03071-150M	15	20%	335	16	0.93
PDSH03071-220M	22	20%	285	13	1.2
PDSH03071-330M	33	20%	255	10	2.1
PDSH03071-470M	47	20%	205	8.5	2.6
PDSH03071-680M	68	20%	185	6.5	3.3
PDSH03071-101K	100	10%	165	5.5	4.2
PDSH03071-151K	150	10%	150	4.7	5.4
PDSH03071-221K	220	10%	130	4	7
PDSH03071-331K	330	10%	100	3.4	11
PDSH03071-471K	470	10%	90	2.5	14
PDSH03071-681K	680	10%	75	2	25
PDSH03071-102K	1000	10%	50	0.9	36



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封裝尺寸 (mm)
Dimension



系列	封裝尺寸 Dimension			MPQ
Series	A	B	C	pcs/袋
0410	Ø4.0 Max	10.0 Max	Ø0.55±0.05	2000pcs

電氣參數

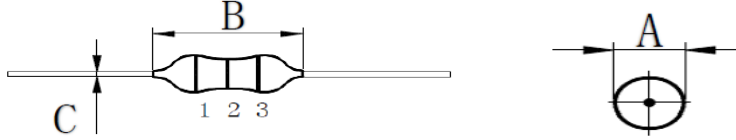
Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature				
	感值	精度	額定電流	自諧頻率 S. R. F	DCR
	Inductance	tolerance	Rated current		Ω
µH	(±)	mA	MHZ	Max	
PDSH0410I-1R0M	1	20%	920	157	0.17
PDSH0410I-1R5M	1.5	20%	830	110	0.2
PDSH0410I-2R2M	2.2	20%	750	110	0.24
PDSH0410I-3R3M	3.3	20%	670	94	0.3
PDSH0410I-4R7M	4.7	20%	620	80	0.4
PDSH0410I-5R6M	5.6	20%	590	74	0.43
PDSH0410I-6R8M	6.8	20%	550	68	0.48
PDSH0410I-8R2M	8.2	20%	530	53	0.52
PDSH0410I-100M	10	20%	500	40	0.58
PDSH0410I-150M	15	20%	460	20	0.72
PDSH0410I-220M	22	20%	410	10	0.9
PDSH0410I-330M	33	20%	370	6.5	1
PDSH0410I-470M	47	20%	340	6.5	1.2
PDSH0410I-680M	68	20%	310	6	1.45
PDSH0410I-101K	100	10%	300	4.8	1.8
PDSH0410I-151K	150	10%	220	3.5	2.8
PDSH0410I-221K	220	10%	200	3	3.5
PDSH0410I-331K	330	10%	170	2.6	4.2
PDSH0410I-471K	470	10%	150	2.3	5.5
PDSH0410I-561K	560	10%	130	2.1	7.7
PDSH0410I-681K	680	10%	120	2	8
PDSH0410I-821K	820	10%	110	1.85	11.8
PDSH0410I-102K	1000	10%	100	1.5	14
PDSH0410I-222K	2200	10%	75	0.8	28
PDSH0410I-332K	3300	10%	65	0.65	37
PDSH0410I-472K	4700	10%	55	0.6	35



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封装尺寸 (mm)
Dimension



系列	封装尺寸 Dimension			MPQ
Series	A	B	C	pcs/袋
0512	Ø5.0 Max	12.5 Max	Ø0.55±0.05	1000pcs

電氣參數

Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature				
	感值 Inductance	精度 tolerance	額定電流 Rated current	自諧頻率 S. R. F	DCR
			mA		Ω
	µH	(±)	$\Delta T \approx 40^\circ\text{C}$	MHZ	Max
PDSH0512I-1R0M	1	20%	2400	120	0.05
PDSH0512I-1R5M	1.5	20%	2300	96	0.06
PDSH0512I-2R2M	2.2	20%	2200	95	0.07
PDSH0512I-3R3M	3.3	20%	1900	78	0.08
PDSH0512I-4R7M	4.7	20%	1600	69	0.1
PDSH0512I-5R6M	5.6	20%	1500	57	0.11
PDSH0512I-6R8M	6.8	20%	1300	47	0.13
PDSH0512I-8R2M	8.2	20%	1200	35	0.13
PDSH0512I-100M	10	20%	1100	22	0.14
PDSH0512I-150M	15	20%	1000	16	0.26
PDSH0512I-220M	22	20%	950	8	0.3
PDSH0512I-330M	33	20%	900	6	0.35
PDSH0512I-470M	47	20%	800	5.5	0.4
PDSH0512I-680M	68	20%	700	4	0.45
PDSH0512I-101K	100	10%	620	3.5	0.5
PDSH0512I-151K	150	10%	500	3	0.8
PDSH0512I-221K	220	10%	420	2.6	1.2
PDSH0512I-331K	330	10%	330	2.2	2.2
PDSH0512I-471K	470	10%	290	1.9	2.5
PDSH0512I-561K	560	10%	270	1.8	2.9
PDSH0512I-681K	680	10%	250	1.5	3.4
PDSH0512I-821K	820	10%	230	1.2	3.6
PDSH0512I-102K	1000	10%	210	1	4
PDSH0512I-222K	2200	10%	150	0.8	9.5
PDSH0512I-332K	3300	10%	120	0.7	13
PDSH0512I-472K	4700	10%	100	0.6	20
PDSH0512I-682K	6800	10%	90	0.45	30
PDSH0512I-103K	10000	10%	60	0.35	48

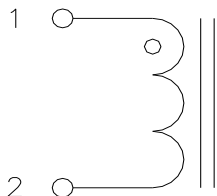


特性 CHARACTERISTICS



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電路結構 Connections

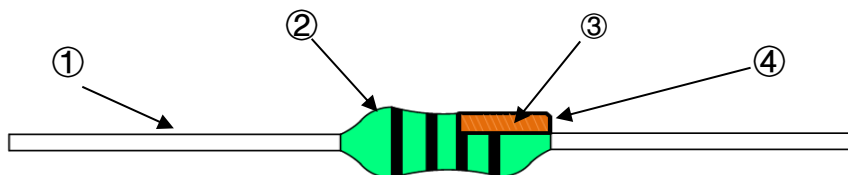


◎ 电感内置一组线圈
Inductor Contents ONE (1) Set(s) of Coil

實物展示 picture



材料清單 Material List

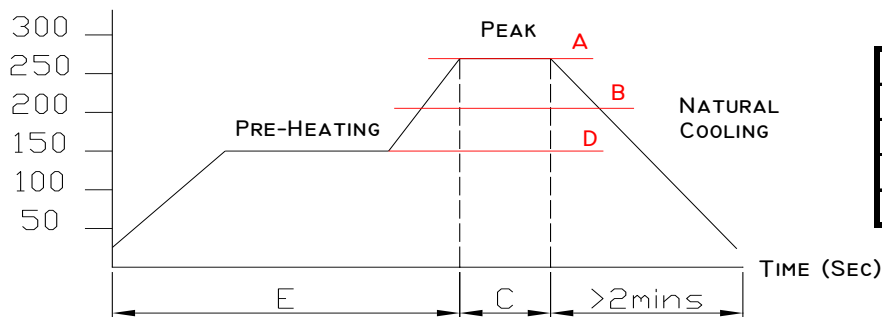


NO.	結構 Structure Name	材料規格 Material Name	材料製造商 Material Manufacturer	UL NO.
①	引腳/PIN	φ 0.55/0/5mm	XIN GUAN (或等同廠商規格)	N. A
②	漆包膜/Epoxy Resin	NC-G	HOU DA (或等同廠商規格)	N. A
③	漆包線/Wire	2UEW-155°C	PACIFIC (或等同廠商規格)	E344055
④	磁芯/Core	3x7/4x8/5x12mm	JING WEI (或等同廠商規格)	N. A

焊接溫度 (推荐)

Recommended Soldering Temperature Graph

TEMPERATURE (°C)



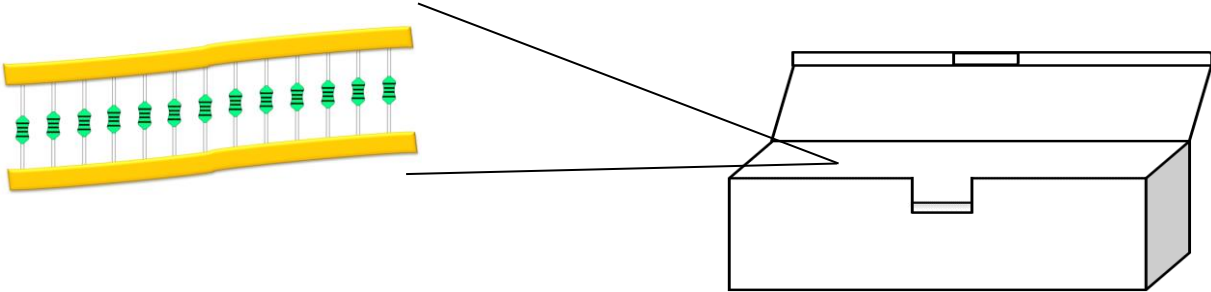
A	260°C
B	230°C
C	10 Sec
D	150°C
E	60~240 Sec



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内盒包装

MPQ packaging

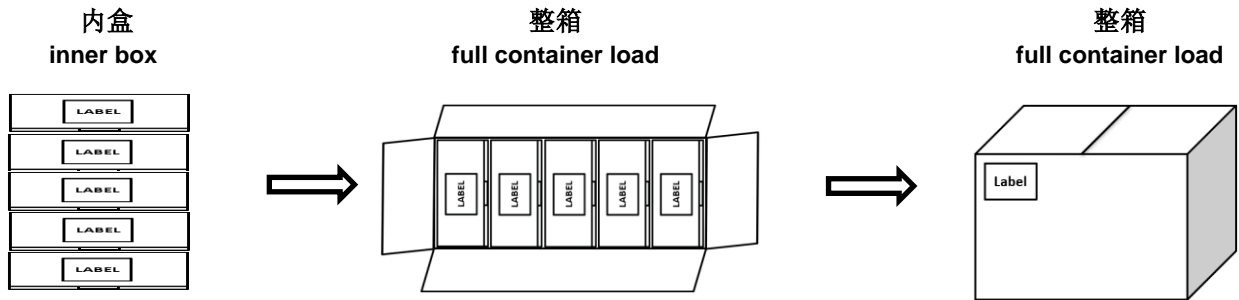


产品使用胶带编制固定，叠放至盒子内 盒子尺寸：25x10x7cm

Both ends of the product are fixed with adhesive tape, Lay it flat inside the box, box size:25x10x7cm

外箱

full container load



每箱装5小盒 外箱尺寸：

5 inner box/full container load, outer box size

包装数量与尺寸

Package Quantity and Size

系列 series	0307	0410	0512
最小包装 MPQ	3000	2000	1000
整箱数量 FCL	15000	10000	5000



注意事項

使用本產品時，請注意以下事項

- ◎ 產品保存期限為12個月，保存條件：溫度5~40℃，濕度10~75%RH以內，超過保存期限可能會使產品端子電極發生氧化。
- ◎ 請勿在極端環境下使用和保存（高鹽，強酸，強鹼，強輻射等）。
- ◎ 產品焊接前，請進行預熱；預熱溫度與焊接溫度之間溫差建議控制在150℃以內。
- ◎ 產品焊接後需重新拆卸焊接修正時，請遵循規格書規定的條件範圍；過高的加熱溫度以及反復的拆卸可能會導致產品失效。
- ◎ 產品請勿接觸清洗劑，酒精等液體，這會侵蝕產品本體，從而導致產品失效。
- ◎ 產品焊接到線路板後，請注意不可因線路板整體變形或局部變形而施加給電感剩餘應力，這可能會導致電感發生破裂，脫落，以致失效。
- ◎ 產品通電後溫度會隨電流的增大而上升，設計時請務必考慮留有餘量。
- ◎ 過高的靜電會對產品產生永久性損害，請注意靜電防護。
- ◎ 產品通電過程請勿觸摸產品任何部位，防止觸電。
- ◎ 本產品作為磁性產品，設計時請務必考慮周邊元器件與本產品可能產生的相互影響。
- ◎ 本產品適用於一般電子設備，如：AV設備，通信設備，家電產品，娛樂設備，電腦設備，個人設備，辦公設備，計測設備，工業機器人等。且該一般電子設備需在常規的操作和使用方法環境下使用。對於需要高度安全性和可靠性的，或者因本產品失效造成設備故障，誤操作，運轉不良等危及到人的生命身體及財產安全，以及對社會產生較大不良影響的特殊用途，設計使用前務必同本公司溝通，設計使用者如未取得我司書面同意狀況下使用造成任何後果，我司不予承擔。特殊用途包含但不限定如下清單：
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 - 5 核動力相關設備
 - 6 爆炸引燃控制設備
 - 7 交通控制設備
 - 8 關係到國防安全的設備
 - 9 其他被認定為特殊用途的設備





ANNOUNCEMENTS

Please read this before using the product.

- © The product storage life is 12 months, Storage Temperature: TEMP.5~40°C; RH10%~75%. Please use the product within the warranty period
- © Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, radiation etc.) .
- © Before soldering, be sure to preheat components:The preheating temperature should be set so that The temperature difference between the solder temperature and chip temperature does not exceed 150° C.
- © Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. Repeated disassembly may invalidate the inductance
- © The cleaning agent can not be used for these products. This may corrode the inductor
- © When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- © Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- © Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- © As a magnetic product, the design must consider the possible interaction between peripheral components and the product.
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[1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#)