

產品編碼 P/N	PSEFCI5025~5045 Series	測試設備 TEST INSTRUMENT	Keysight:E4991B Chroma:16502 3302
產品系列 Series	EMI 共模濾波器	測試頻率 TEST FREQUENCY	100MHZ / 0.1V

客戶名稱
Customer

客戶編碼
Customer P/N

產品系列
Series

EMI 共模濾波器
EMI Suppression Filters

產品編碼
Supply P/N

PSEFCI5025~5045 Series

發版號
Version

A2.1

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

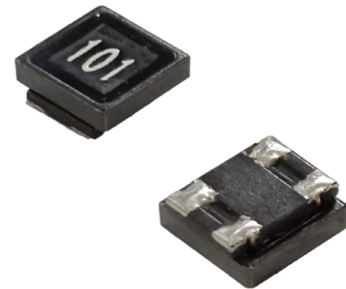
客戶簽章

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产品特点

Features

- ☐ 产品薄，尺寸小，额定电流大
Low profile, Small size (5.0x5.0mm) and high rated current
- ☐ SMD 结构便于SMT生产自动化贴片
SMD structure is convenient for SMT production automation patch
- ☐ 超小超薄的结构减少PCB的占用面积
Takes up less PCB real estate and save more power



編碼解釋

Code interpretation

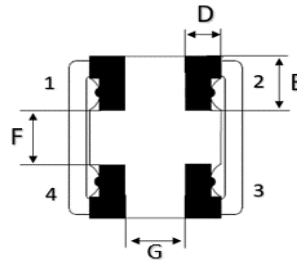
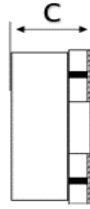
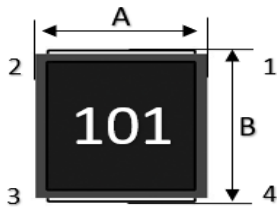
PSEFCI	5025	-	501
<u>類別碼</u>	<u>尺寸系列</u>		<u>阻抗值</u>
Category code	Dimension		Impedance

- ◎ 規格參數基於環境溫度25℃取得
All test Data is referenced to 25℃ ambient
- ◎ 電感工作環境溫度：-40℃ ~ 125℃
Operating temperature range -40 °C to +125 °C
- ◎ 加載額定電流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 rated current would cause an approximately ΔT of 40°C
- ◎ 務必考慮最終的產品設計，元器件佈局，線路板走線，以及使用環境過程中，電感最終溫度不得超過105℃
The operating temperature of inductance do not exceed 105°C
- ◎ 使用電感時，請查閱第10頁注意事項
The announcements is on page 11

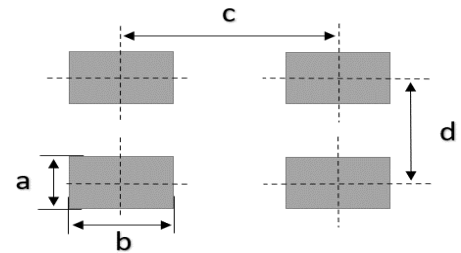


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封裝尺寸
Dimension (mm)



推薦的焊盤尺寸
Recommended Land Pattern



系列 Series	封裝尺寸 Dimension							焊盤尺寸 Land Pattern			
	A	B	C	D	E	F	G	a	b	c	d
5025	4.8±0.3	5.0±0.3	2.5MAX	1.25Ref	1.7Ref	1.6Ref	1.0Ref	1.5 Typ	2.0 Typ	3.3 Typ	2.4 Typ
5045	4.8±0.3	5.0±0.3	4.5MAX	1.25Ref	1.7Ref	1.6Ref	1.0Ref	1.5 Typ	2.0 Typ	3.3 Typ	2.4 Typ

電氣參數

Electrical Characteristics

產品編碼 P/N	@ 25 °C Ambient Temperature						
	阻抗值 (Z)	DCR		額定電流 Rated Current	絕緣性 IR	額定電壓 Rated Voltage	耐電壓 Withstand Voltage
	Ω	mΩ		mA	MΩ	V	V
	Typ	Typ	Max	ΔT≈40°C	Min		
PSEFCI5025-101	100	9	13	6500	10	50	125
PSEFCI5025-251	250	14	20	5000	10	50	125
PSEFCI5025-351	350	28	40	4000	10	50	125
PSEFCI5025-501	500	19	27	4000	10	50	125
PSEFCI5025-102	1000	24	30	2000	10	50	125
PSEFCI5025-142	1400	40	56	1500	10	50	125
PSEFCI5045-191	190	15	20	5000	10	50	125
PSEFCI5045-351	350	32	40	2000	10	50	125
PSEFCI5045-501	500	38	50	1800	10	50	125
PSEFCI5045-801	800	38	50	1500	10	50	125
PSEFCI5045-102	1000	54	60	1500	10	50	125
PSEFCI5045-152	1500	80	100	1000	10	50	125
PSEFCI5045-302	3000	165	200	500	10	50	125
PSEFCI5045-402	4000	268	300	200	10	50	125

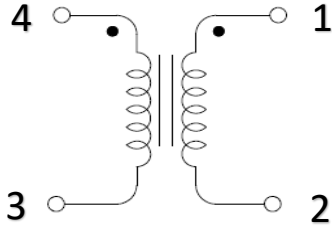


特性 CHARACTERISTICS



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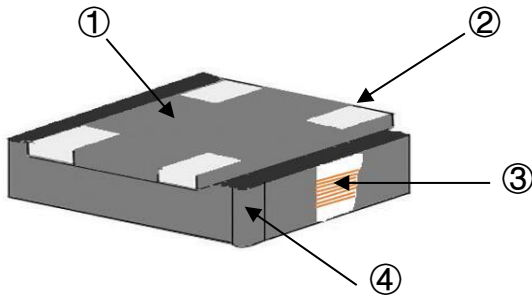
電路結構 Connections



◎ 電感內置兩組線圈
Inductor Contents Two (2) Set(s) of Coil

◎ 電感頂部白色噴碼印字
Marking Color:white "XXX"

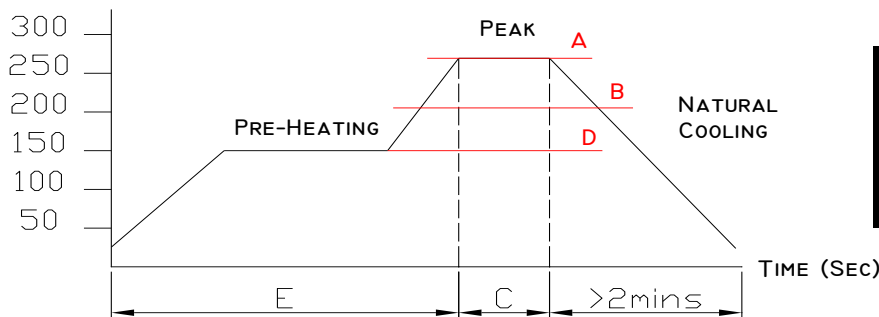
內部構造 Internal Structure



- ①：磁芯 / Core
- ②：電極 / Electrode
- ③：線圈 / coil
- ④：磁罩 / Magnetic cover

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

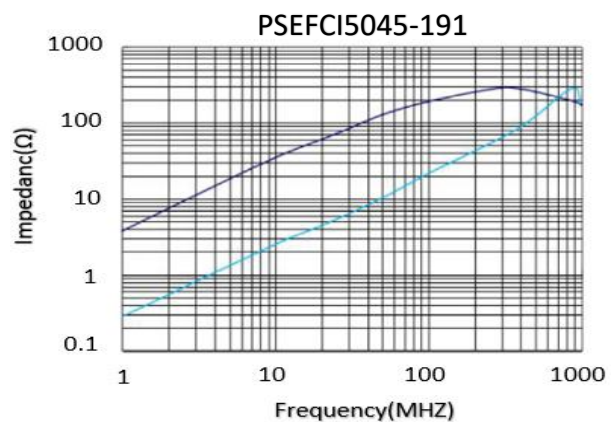
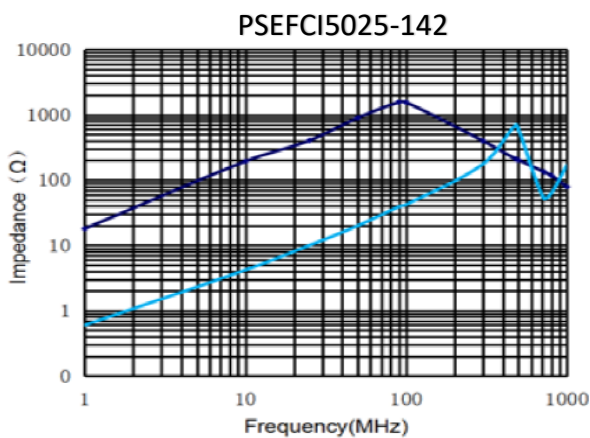
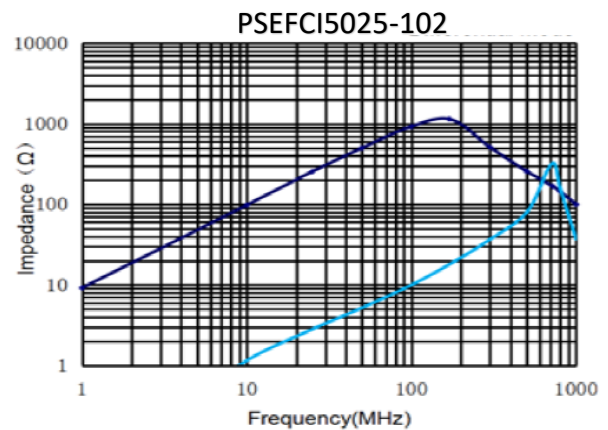
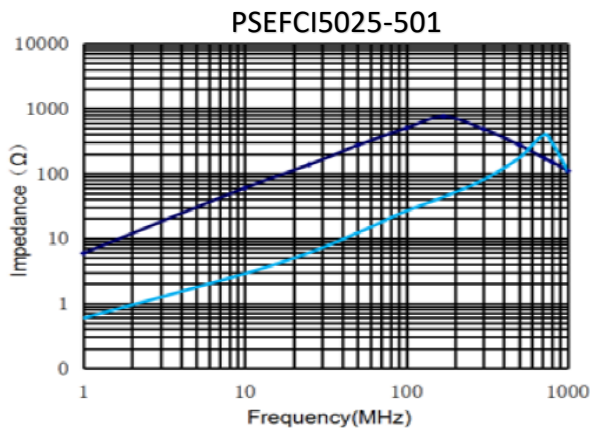
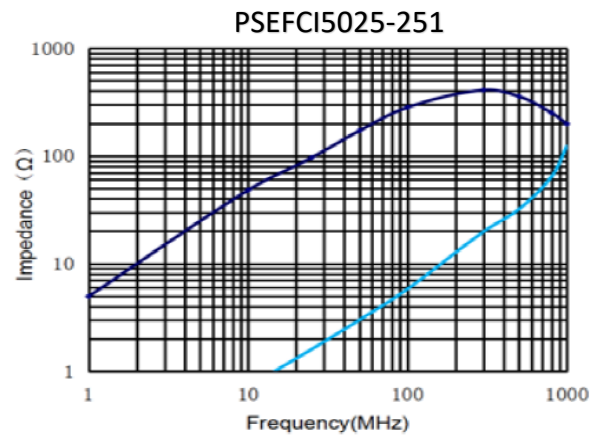
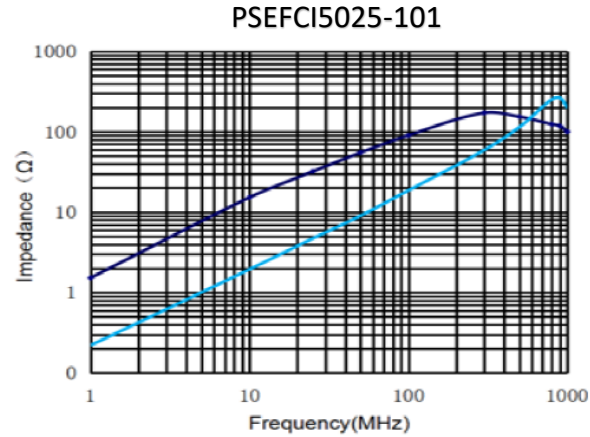


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特性曲線

Performance Curves

—— 差模特性 (Differential Mode)
 —— 共模特性 (Common Mode)



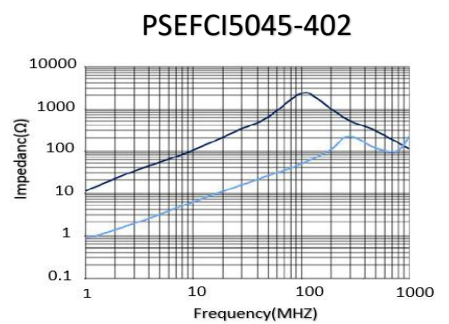
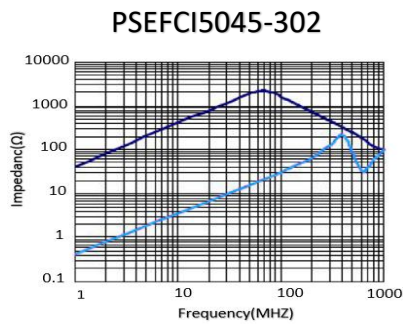
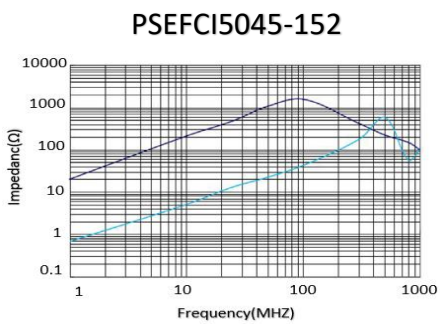
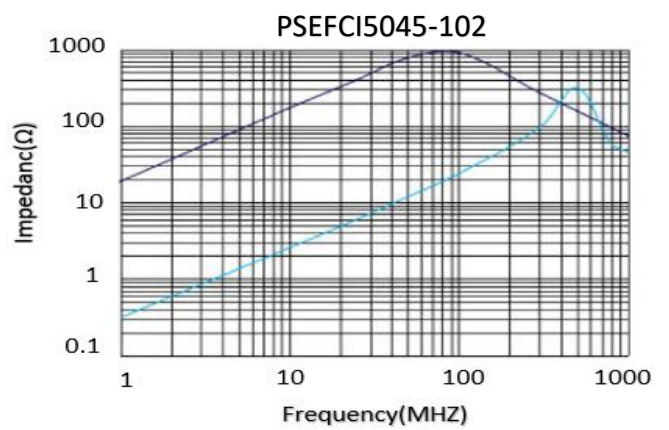
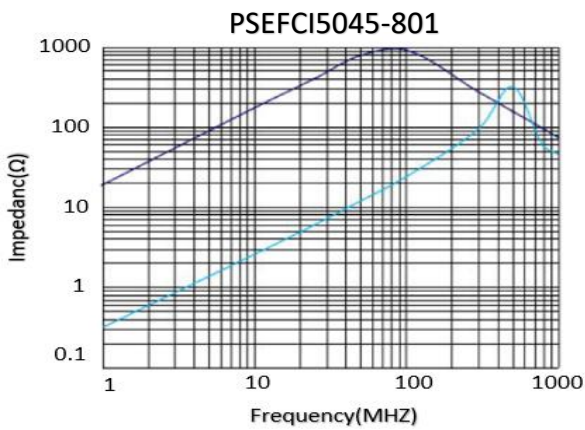
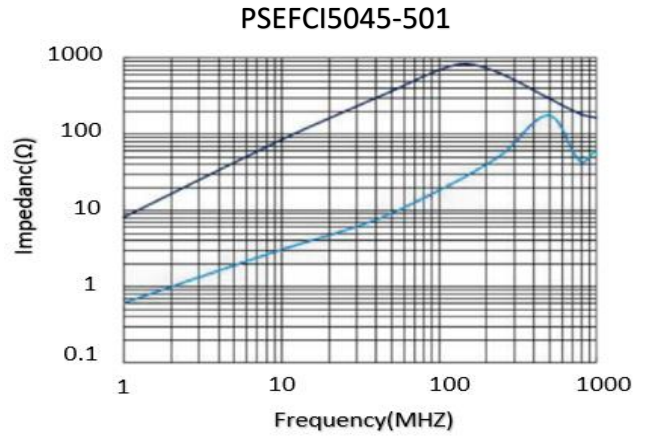
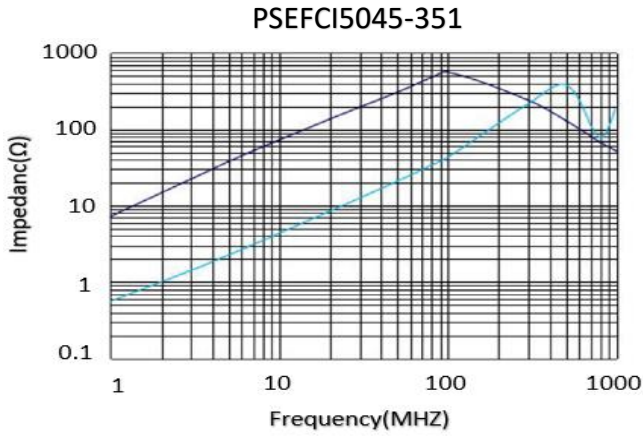


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差模特性 (Differential Mode) 共模特性 (Common Mode)



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机械可靠性测试

Mechanical Reliability

實驗名稱 ITEM	試驗要求 Specification & Requirement	試驗方法 Method Used
可焊性實驗 Solderability	The surface of terminal/pin tested shall be covered with new solder by 95%	Solder heat proof: Preheating: 180 ±10°C 90 seconds Soldering: 255 ±5°C for 3 ±1 sec
機械衝擊 Shock	Inductance change within ± 5% Without mechanical damage	Drop down with 981m/s ² (100G) shock Attitude upon a rubber block method shock testing machinem, 3 tests.
振動實驗 Vibration	Inductance change within ± 5% Without mechanical damage	Vibration frequency: 10Hz to 55Hz to 10Hz 60 seconds cycle Vibration time: 2 hours

老化测试

Aging Reliability

實驗名稱 ITEM	試驗要求 Specification & Requirement	試驗方法 Method Used
冷熱衝擊 Thermal Shock	Inductance change within ± 5% Without mechanical damage	-25°C, (30 mins) -> room temp. (5 mins) -> 125°C, (30 mins) -> room temp. (5 mins) 100 cycles
耐熱性 Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85°C ambient Duration: 500 hrs
耐濕性 Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 500 hrs
低溫存儲實驗 Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -25 ±2 °C for total 500 +4/-0 hours
高溫存儲實驗 High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125 ±2 °C for total 500 +4/-0 hours

包裝方式

PACKING FOR SMD

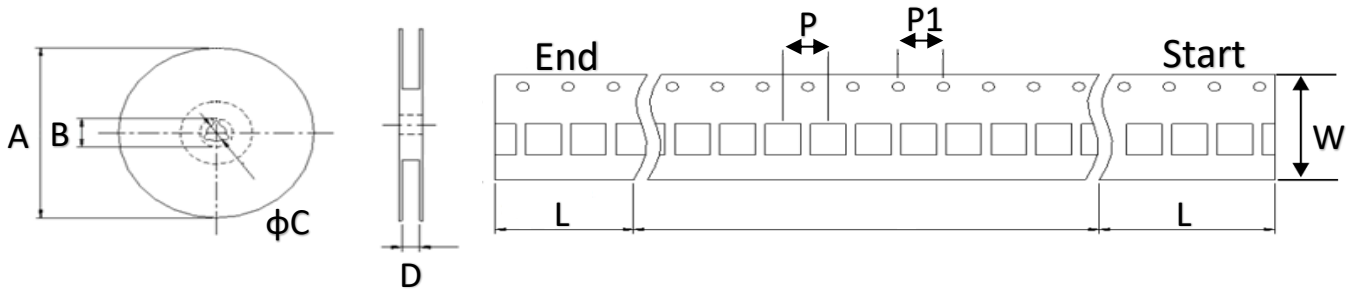


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載帶卷盤尺寸 : (mm)

Packing Dimension

MPQ	A	B	C	D	P	P1	W	L
2500pcs/卷盤	330 Typ	21 Ref	13 Ref	12.5 Ref	8 Ref	4 Ref	12 Ref	前后预留约30空格
1000pcs/卷盤	330 Typ	21 Ref	13 Ref	16.5 Ref	12 Ref	4 Ref	16 Ref	前后预留约30空格

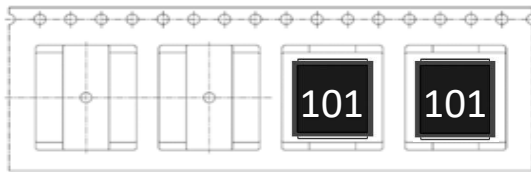


載帶內產品排列方式:

Inductance Packing Method

電感平行擺放在齒輪孔一側

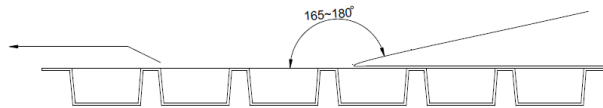
The Inductor are placed parallel to one side of the gear hole



載帶剝離力:

Typical Pulling Force

20~120 gf



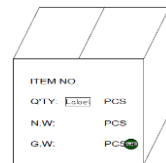
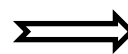
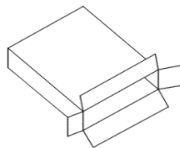
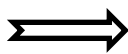
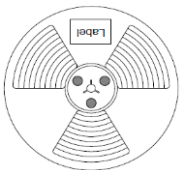
裝箱數量:

Package Quantity

最小包裝
MPQ

內盒
Inner box

整箱
full container load



系列	最小包裝 MPQ	內盒 Inner box	整箱 full container load
5025	2500	7500	22500
5045	1000	3000	9000

© 實際出貨過程，依據客戶需求狀況的不同，包裝數量會有變化，最終的包裝數量請參照實際出貨包裝
In the actual delivery process, the package quantity will change according to the different customer demands.
Please refer to the actual shipment quantity for the final package quantity



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PuLuoDe Electronic Technology (Shenzhen) Co., LTD

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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，設計使用者如在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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| 2 運輸設備（汽車，軌道交通產品，船舶等） | 9 其他被認定為特殊用途的設備 |
| 3 航空，航太設備 | |
| 4 發電控制設備 | |
| 5 核動力相關設備 | |
| 6 爆炸引燃控制設備 | |
| 7 交通控制設備 | |





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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The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
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- | | |
|--|---|
| 1 Military equipment | 7 Transportation control equipment |
| 2 Transportation equipment (cars, trains, ships, etc.) | 8 Medical equipment |
| 3 Aerospace/aviation equipment | 9 Other applications that are not considered general-purpose applications |
| 4 Power-generation control equipment | |
| 5 Atomic energy-related equipment | |
| 6 Explosive ignition control equipment | |

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