

零 件 承 认 书



SPECIFICATION FOR APPROVAL

客户名称: 0110

规格描述: ZENR5040磁胶电感规格书日 期: 2023/10/10

增益签核:

制订	审核	核准
夏琳	陈雨	李万

客户签核:

工程	审核	核准



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物料类型:	磁胶电感
日 期:	2023/10/10
版 本:	A



◆特征:

- 磁性胶水涂敷结构极大减少了蜂鸣声
- 大电流低直流阻抗
- 直接在磁芯上金属化电极,抗跌落冲击强
经久耐用
- 闭合磁路结构设计,漏磁少,抗 EMI 能力强
- 省空间,更省电
- 符合 RoHS,无卤和 REACH

◆用途:

- 广泛应用于 LED 背光板、平板电视、
蓝光 DVD 机顶盒、笔记本电脑、台式电脑、
服务器、显卡、便携式游戏机、个人导航系统、
多媒体、汽车产品 、通信设备、直流转换.

◆环境:

- 工作温度: -40°C 至+125°C
(包括线圈自身温升)

◆试验设备:

- 电感值:HP4284A, HP4285A 或同等仪器
- 电流:HP4284+42841A
- 直流电阻: Chroma 16502 或同等仪器

◆产品型号:

ZENR 8040 T100 M - 10uH

(1)

类型 Type	
ZENR	闭磁路贴片磁胶电感 Shielded SMT Power Inductors

公差 Inductance Tolerance

K: ±10%,
M: ±20%, N: ±30%

Features:

- Magnetic-resin shielded construction reduces buzz
Noise to ultra-low levels
- Large Current and Low DCR
- Metallization on Ferrite Core results in excellent shock
Resistance and damage-free durability
- Closed magnetic circuit design reduces leakage
Flux and Electro Magnetic Interference (EMI)
- Takes up less PCB real estate and save more power
Small parasitic capacitance
- RoHS, Halogen Free and REACH Compliance

Applications:

- LED backlight、Flat-screen TVs, blue-ray disc
Set top box、Notebooks, desktop computers, servers,
Graphic cards、Portable gaming devices, personal
Navigation systems, personal multimedia devices,
Automotive systemsTelecomm base station 、DC-DC
Converter

Environmental Data:

- Operating Temperature: -40°C to +125°C
(Including coils self-temperature rise)

Test Equipment:

- L:HP4284A or HP4285A LCR meter or equivalent
- Isat & Irms: HP4284+42841A
- DCR:Chroma 16502 or equivalent

Product Identification:

(2)

外形尺寸(L×W×H) (mm) External Dimensions (L×W×H) (mm)	
8040	8.0×8.0×4.0

Inductance

10 uH

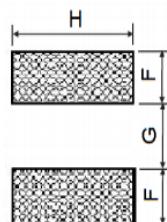
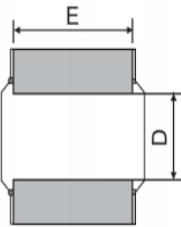
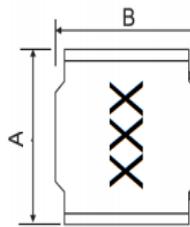
T: 编带

感量注释

◆ 外观尺寸:

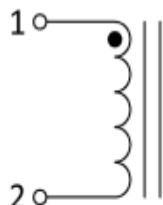
Shape and Dimensions(dimensions are in mm):

Fig.2



Recommended
Land Pattern

SCHEMATIC



Part No	ITEM								
	Shape	A	B	C	D	E	F	G	H
ZENR5040	Fig.2	5.0±0.3	5.0±0.3	4.0 Max	2.5±0.2	4.0±0.2	1.4 Typ	2.3 Typ	4.2 Typ



ZENR5040 系列

Part Number	Inductance (uH) @100KHz	DC Resistance(Ω)		额定电流 Current (A)	饱和电流 Current (A)
		Typ.	Max.		
ZENR5040T301M-300uH	300.0	2.00	2.60	0.42	0.60

- ※ The saturation current value is the DC current value having inductance decrease down to 30%.(at 20°C)
- ※ The temperature rise current value is the DC current value having temperature increase up to 40°C. (at 20°C)
- ※ The rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

使用注意事项 REMINDERS FOR USING THESE PRODUCTS



- 保存时间为12 个月以内，保存条件（温度5~40°C以下、湿度35 ~ 66%RH 以下），需充分注意。
若超过保存时间，端子电极的可焊性将可能老化。
The storage period is within 12 months. Be sure to follow the storage conditions (temperature: 5~40°C, humidity: 35 to 65% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- 请勿在气体腐蚀环境（盐、酸、碱等）下使用和保存。
Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- 手上的油脂会导致可焊性降低，应避免用手直接接触端子。
Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering.
- 请小心轻拿轻放,避免由于产品的跌落或取出不当而导致的损坏。
Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.
- 端子过度弯曲会导致断线,请不要过度弯曲端子。
Don't bend the terminals with excessive stress in case of any wire fracture.
- 不要清洗产品，如需要清洗时请联系我司。
Don't rinse coils by yourself and please contact ZE if necessary.
- 请勿将本产品靠近磁铁或带有磁力的物体
Don't expose the products to magnets or magnetic fields
- 在实施焊接前，请务必进行预热。预热温度与焊接温度及芯片温度的温度差要在150°C 以内。
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.
- 安装后的焊接修正应在规格书规定的条件范围内。若加热过度可能导致短路、性能降低、寿命减少。
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.
- 装置会因通电而自我发热（温度上升），因此在热设计方面需留有充分余地。
Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- 非磁屏蔽型在基板设计时需注意配置线圈，受到电磁干扰可能会导致误动作。
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.
- 当本公司产品使用在一般电子设备以外的场合,如:车载,医疗设备,军用,航空航天等,请务必联繫本公司营业部门,如超出本公司产品使用条件而引起的机器故障时,本公司概不负责。
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