零件承认书



SPECIFICATION FOR APPROVAL

客户名称:	0110			
-------	------	--	--	--

增益型号: ZECB321611M601T3RO-LF

规格描述: 超大电流叠层磁珠1206 600 3A电流

日 期: 2024/12/01

版 本: A

增益签核:

制订	审核	核准
夏琳		李万

客户签核:

	审核	核准
147年	T 1久	7久1年



东莞市增益实业有限公司

地址: 东莞市塘厦镇林村塘厦大道北552号

电话: 0769-87321000 传真: 0769-87891229

物料类型:	叠层磁珠
日期:	2024/12/01
版 本:	Α



■ Features

- High density packaging with a pitch of 2.54mm(0.1 inch) max. is possible.
 This series requires less space and has greater EMI suppression effects.
- Different types with the same shape are available.
- Excellent in physical properties, such as terminal strength, flexure strength, soldering resistance and soderability.
- Applicable to both flow and reflow soldering.
- High impedance cover wide frequency ranges.
- YI series can be used in high current circuits due to its low DC resistance.
- Operating temperature:- 40° C ~ +125 $^{\circ}$ C.

■ Applications

- Computers and peripheral devices, personal computers, VCR and cameras.
- Noise suppression in digital equipments, car stereo, car engines controllers and OA electronic instruments.
- Communication equipment.

Product Identification

1.Series name 系列名称

2.Dimension 产品尺寸 L×W: 【2012= 2.0mm×1.2mm】

3.Material code 材料代码

4. Impedance 阻抗值:【100=10 101=100 102=1000 】

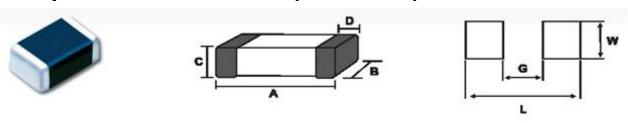
5.Packing Style: 【 T: Taping 编带盘装 B: Bulk 散装】

6.Rating Current: 额定电流 3R0=3A

7.Lead free products 无铅产品



■ Shapes and Dimensions (Unit: mm)



TYPE	Α	В	С	D	L	W	G
ZECB321611	3.2±0.2	1.6±0.2	1.1±0.2	0.5±0.3	4.40	1.80	1.20

■ Electrical Requirements

Part Number	Impedance(Ω)	Test Freq.	DCR MAX.	Rating Current MAX
	±25%	(MHz)	(Ω)	(A)
ZECB321611M601T3R0-LF	600	100	0.055	3.0

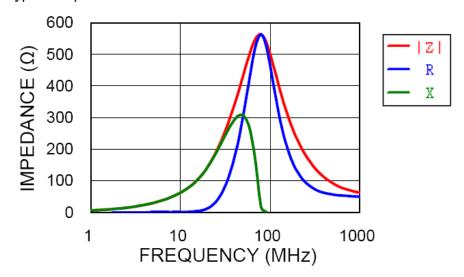
TEST INSTRUMENTS:

HP 4338A MILLIOHMMETER

HP 4291B RF IMPEDANCE/MATERIAL ANALYZER

■ Impedance VS. Frequency characteristic

Typical Impedance Characteristics: HP 4291B





Multilayer Ferrite Chip Beads

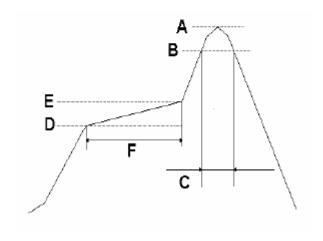
■ Reliability test

Item	Performance	Test condition
Operating temperature range	-55 °C to + 125 °C	
Storage temperature and umidity ranges	40 °C MAX., 70% RH MAX.	
Soldering heat resistance	The chip shall not be cracks. More than 75% of terminal electrode shall be covered with solder.	Preheat: 150 °C, 60 seconds Solder temperature : 270 ± 5 °C Flux: Rosin Dip time: 10 ± 1 seconds 270 °C Proheating Dipping Natural cooling 150 °C 60 seconds 10±1 seconds
Solderability	More than 90% of the terminal electrode shall be covered with new solder.	Preheat: 150 °C, 60 seconds Solder temperature: 245 ± 5 °C Flux: Rosin Dip time: 4 ± 1 seconds 245 °C Preheating Dipping Natural cooling

Recommended Soldering Conditions

(REFLOW TEMPERATURE PROFILE) Lead-Free

А	260±5℃
В	230±5℃
С	30 ±10 sec
D	150℃
Е	180℃
F	90 ± 30sec





■ Reliability test

Item	Performance	Test condition
High temperature	Appearance: Ferrite shall not be damaged.	Temperature: 85±2°C
resistance	Impedance: Within±20% of the initial value.	Testing time: 1008±12 hours
		Measurement: After placing for 24 hours min.
		85 °C
		Room temperature 1008 hours 24 hours
Humidity resistance	Appearance: Ferrite shall not be damaged.	Humidity: 90 to 95% RH
	Impedance: Within±20% of the initial value	Temperature: 40±2°C
		Testing time: 1008±12 hours
		Measurement: After placing for 24 hours min.
		40 °C
		Room temperature 1008 hours 24 hours
Thermal	Appearance: Cracking, chipping or any other	Temperature: -40℃, +85℃, kept stabilized for 30
Shock	defects harmful to the characteristics shall not be	minutes each
	allowed. Impedance: Within±20% of the initial	Cycle: 100 cycles
	value	Measurement: After placing for 24 hours min.
		Room temperature 30 minutes 30 minutes
Low temperature	Appearance: Cracking, chipping or any other	Temperature: -40±2°C
storage life test	defects harmful to the characteristics shall not be	Testing time: 1008±12 hours Measurement: After
	allowed. Impedance: Within±20% of the initial	placing for 24 hours min.
	value.	
		Room temperature 24 hours -40 °C