

SPECIFICATION FOR APPROVAL

产品规格承认书

Multilayer Ceramic Inductor

绕线电感

OZDISAN

CUSTOMER.

MODEL NO.

CUSTOMER'S PART NO.

LILE NO.

DATE.

REVISION.

KWL1608CR10STF

LQW18ANR10G00D

20-349

2020.4.11

A/0

CUSTOMER APPROVE		
DATE:		
DRAWING		
DRAWN BY	CHECK BY	APPROVAL BY
殷荣忠	殷荣忠	范耀明
DATE:		

常州银河创新磁电有限公司

CHANGZHOU GALAXY INNOVATION MAGNETOELECTRICITYCO., LTD

常州银河创新磁电有限公司

CUSTOMER	OZDISAN	MODEL NO.	KWL1608CR10STF	REVISION	A/0
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REVISIONS

REW	PROJECT CHANGE	DESCRIPTION	Date

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1.PRODUCT DIMENSION	UNIT:mm	
	A	1.7±0.2
	B	1.1±0.2
	C	0.9±0.2
	D	0.5TYP
	E	0.76±0.1

2.ELECTRICAL						
Part Number	Inductance	Typ.Q Factor	Min L/Q Test Freq	Max DC Resistance	Max Rated Current	Min Self-resonant Frequency
KWL1608CR10STF	100nH±5%	49	250.00	0.54(Ω)	470(mA)	1.5MHz

3.CHARACTERISTICS

(1). All test data is based on 25°C ambient.

(2). DC current(A)that will cause L0 to drop approximately 30%Typ

(3). Operating temperature range: -55°C~+125°C

(4).The part temperature (ambient + temp rise)should not exceed 125°C under worst case operating conditions. circuit design, component.PWB trace size and thickness,airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the den application

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4.PRODUCT IDENTIFICATION

XXX XXXX - XXX X - X

① ② ③ ④ ⑤

①.Product Symbol ②. Dimensions ③. Inductance

④.Tolerance: J:±5%,K:±10%,M±20%, N±30%.

⑤. Material (材料磁导率从小到大依次为A;Q;C;D;E;R等)

5.Material Composition

序号	Composition	Material	Supplier
1	Base Material	Ferrite ni-cu-zn	Japan
2	Internal Conductor	Ag	Japan
3	Terminal Electrode	Ag	Japan
4	Terminal Electrode	Ni-Sn	USA

6.APPLICATION

(1)High frequency circuits of telecommunication.

(2)Mobile phones such as GSM,CDMA,PDC,etc.

(3)Bluetooth.

(4)Other High frequency circuits in general.

7.FEATURES

(1)Monolithic construction yields high reliability.

(2)High self-resonant frequency.

(3)Excellent solderability and heat resistance for either flow or reflow soldering.

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8.可靠性Reliability					
项目Item	规格与需求 Specification and Requirement		测试方法Test Method		
可焊性 Solderability test	沾锡面积不得小于95%上锡面 Terminals area must have 95% min solder coverage		上锡升温曲线Solder heat proof: (1) 预热: 160±10℃持续90s Preheating: 160±10℃ for 90 seconds (2) 恒温时段: 245±5℃持续2±0.5s Retention time: 245±5℃ for 2±0.5 seconds		
振动测试 Vibration test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1) 振动频率(10Hz 55Hz 10Hz)60s为一个周期 Vibration frequency: (10Hz to 55Hz to 10Hz) in 60 seconds as a period (2) 振动时间 Vibration time: 三维正交坐标系每个方向振动(周期) 循环2小时 Period cycled for 2 hours in each of 3 mutual perpendicular directions (3) 振幅 Amplitude: 1.5 mm Max		
冲击测试 Shock test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1) 最大振幅 Peak value: 100G (2) 脉冲波长 Duration of pulse: 11ms (3) 三维正交坐标系每个方向正负方向冲击3次 Times in each positive and negative direction of 3 mutual perpendicular directions		
冷热冲击 Thermal shock	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1)重复以上100个循环Repeat 100 cycle as follow (-55±2℃,30±3分钟) 室温5分钟 (-55±2℃,30±3 minutes) Room temperature,5 minutes (+125±2℃,30±3分钟) 室温5分钟 (+125±2℃,30±3 minutes) Room temperature,5 minutes (2)恢复: 测试于标准条件下恢复48+4/-0小时 (参考注释1) Recovery:48+4/-0 hours of recovery under the standard condition after the test. (see Note1)		
耐高温测试 High temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1)环境条件: 85±2℃ Environment condition : 85±2℃ 应用电流: 额定电流 Applied current: Rated current (2)持续时间: 1000+4/-0 小时 (参考注释1) Duration:1000+4/-0 hours (see Note1)		
耐湿测试 Humidity Resistance	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1)环境条件: 60±2℃ Environment condition : 60±2℃ 湿度: 90~95% Humidity:90~95% 应用电流: 额定电流 Applied current: Rated current (2)持续时间: 1000+4/-0 小时 (参考注释1) Duration:1000+4/-0 hours (see Note1)		
低温存放测试 Low temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1)存储温度 Store temperature -55±2℃下存放 1000+4/-0 小时 -55±2℃for total 1000+4/-0 hours		
高温存放测试 High temperature life test	感值变化: 不超过±5% 且无破裂等机械损伤产生 Inductance change: Within±5% Without mechanical damage such as break		(1)存储温度 Store temperature +125±2℃下存放 1000+4/-0 小时 +125±2℃for total 1000+4/-0 hours		

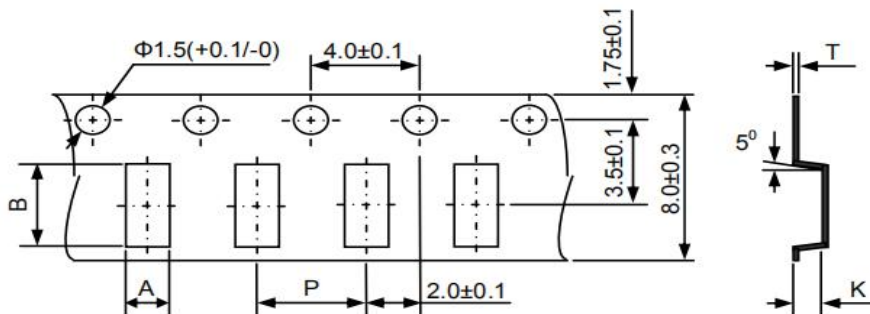
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9、包装 Packaging

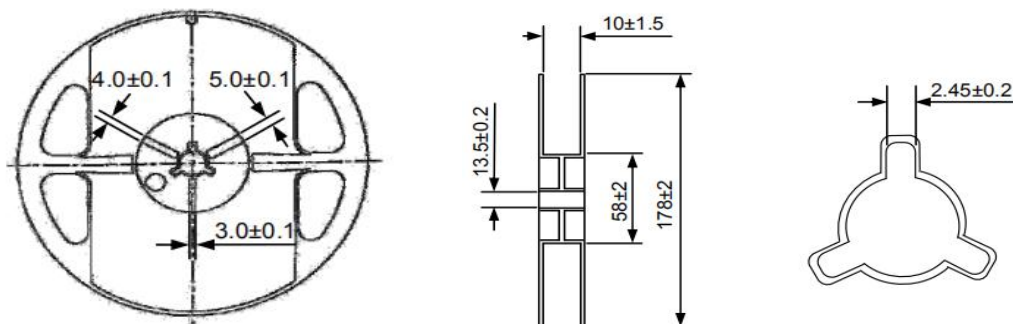
9.1、尺寸 Dimensions

9.1.1 包装料带尺寸 Tape packaging dimensions

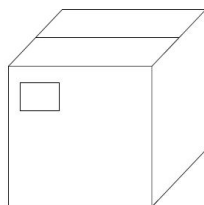
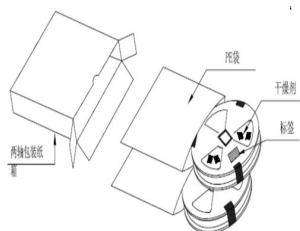


A	B	P	K	T
1.55 ± 0.2	2.25 ± 0.2	4.0 ± 0.1	1.45 ± 0.1	0.2 ± 0.1

9.1.2 卷轴尺寸 Reel dimensions



9.1.3 外箱尺寸 Carton dimensions



项目	数量(K)
1卷轴	10
1外箱	250

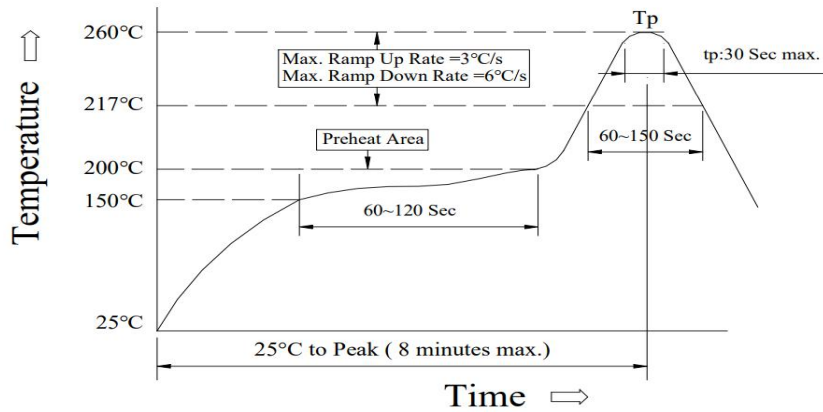
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Reflow curve

※ Reflow Profile

Power Choke Coil Type



1. Reflow Soldering Method

Reflow Soldering	Tp:255~260°C	Max.30 seconds (tp)
	217°C	60~150 seconds
Pre-Heat	150 ~ 200°C	60~120 seconds
Time 25°C to peak temperature	8 minutes max.	

2. Soldering iron method : 350±5°C Max.3 seconds.