SPECIFICATION FOR APPROVAL

产品规格承认书 SMD POWER INDUCTOR

功率电感

CUSTOMER.	
MODEL NO.	KCD75-101M
CUSTOMER'S PART NO.	EA-101M15C04
LILE NO.	20-090
DATE.	2020.2.24
REVISION.	A/0

CUSTOMER APPROVE				
DATE:				
DRAWING				
DRAWN BY	СНЕСК ВҮ	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 MODEL NO. KCD75-101M **REVISION** A/0 FILE NO. PART NO. DATE 2020.2.24 **REVISIONS** REW PROJECT CHANGE **DESCRIPTION** Date

常州银河创新磁电有限公司 KCD75-101M **CUSTOMER** MODEL NO. **REVISION** A/0 FILE NO. PART NO. DATE 2020.2.24 1.PRODUCT DIMENSION **UNIT:mm** Α 7.8±0.3 В 7.0±0.3 В С 5.0±0.3 7.0 2.ELECTRICAL REQUIREMENTS **SPECIFICATION** CONDITION **PARAMETER** TEST INSTRUMENTS 1KHz/1.0V L(uH) 100±20% **MICROTEST 6377** $DCR(\Omega)$ 0.43MAX At 25 °C TH2512A 0.92A TYP 30% 1KHz/1.0V MICROTEST 6377+6220 I sat(A)

3.CHARACTERISTICS

- (1). All test data is based on 25℃ ambient.
- (2). DC current(A)that will cause an approximate △T40℃
- (3). DC current(A)that will cause L0 to drop approximately 10%Typ
- (4). Operating temperature range: -55℃~+125℃
- (5).The part temperature (ambient + temp rise)should not exceed 125℃ 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

4.SPECIAL REQUEST

(1)Lettering 101 on top of the body.

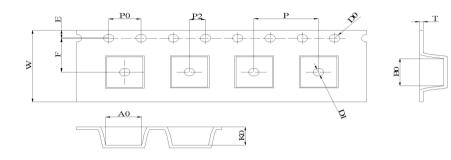
常州银河创新磁电有限公司 MODEL NO. KCD75-101M **CUSTOMER REVISION** A/0 FILE NO. PART NO. DATE 2020.2.24 **5.PRODUCT IDENTIFICATION** XXXX - XXX X X 1) 4 ①、 Product Symbol ②、 Dimensions 3, Inductance 4. Tolerance: M±20%, N±30%. 5 . Material **6.ELECTRICAL SCHEMATICS** 7.APPLICATION (1)Low profile, high current power supplies. (2)Battery powered devices. (3)DC/DC converters in distributed power systems. (5)DC/DC converters for field programmable gate array. 8.FEATURES (1)ROHS compliant. (2)Super low resistance,ultra high current rating. (3)high performance(I sat)realized by metal dust core. (4)Frequency Range:up to 1MHZ. 9.RECOMMENDED PCB LAYOUT Н s М

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3						
项目Item	规格与 Specification a			测试方法Test Method	I	
可焊性 Solder a bility test	沾锡面积不得小于95% Terminals area must h 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	• • •		(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分钟) 室温5分钟 (+125±2℃,30±3分钟) 室温5分钟 (+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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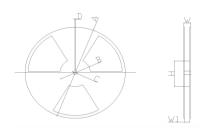
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12、包装 Packaging 12.1、尺寸 Dimensions 12.1.1 包装料带尺寸 Tape packaging dimensions



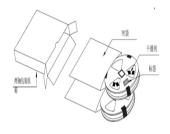
W	Α0	В0	K0	Р	F	Е	D0	P0	Т
12.00		6.0	4.8	8.0	5.5	1.75	1.50	4.0	0.35
±0.30		±0.10	±0.10	±0.10	±0.1	±0.10	±0.10	±0.10	±0.05

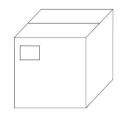
12.1.2 卷轴尺寸 Reel dimensions



项目	尺寸(mm)			
Α	330.0 ± 2.0			
В	100.0 ± 1.0			
С	13.0 ± 1.0			
D	1.9 ± 0.4			
W	17.5max			
W1	12.5max			

12.1.3 外箱尺寸Carton dimensions





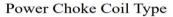
项目	数量(PCS)		
1卷轴	1000		
1内箱	2000		
1外箱	6000		

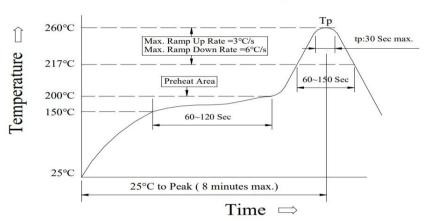
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Reflow curve

※ Reflow Profile





1. Reflow Soldering Method

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

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