

SPECIFICATION FOR APPROVAL

承 认 书

Description : Magnetic Buzzer

Kingstate Part No. : KCOG0903

Customer's Model No. : _____

Specification No. : TKR-6323

Number Of The Edition : 1.1

CUSTOMER'S APPROVED SIGNATURE		



KINGSTATE 志丰电子股份有限公司 **KINGSTATE ELECTRONICS CORP.**

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Approved by	Checked by	Issued by
		ZHUXIAOLEI 2026.04.16

RELEASE HISTORY 发行历史

Revision	Version	Date	Description	Remark
1	1.1	2026.04.16	初版发行	ZHUXIAOLEI

Preliminary

A. SCOPE 范畴

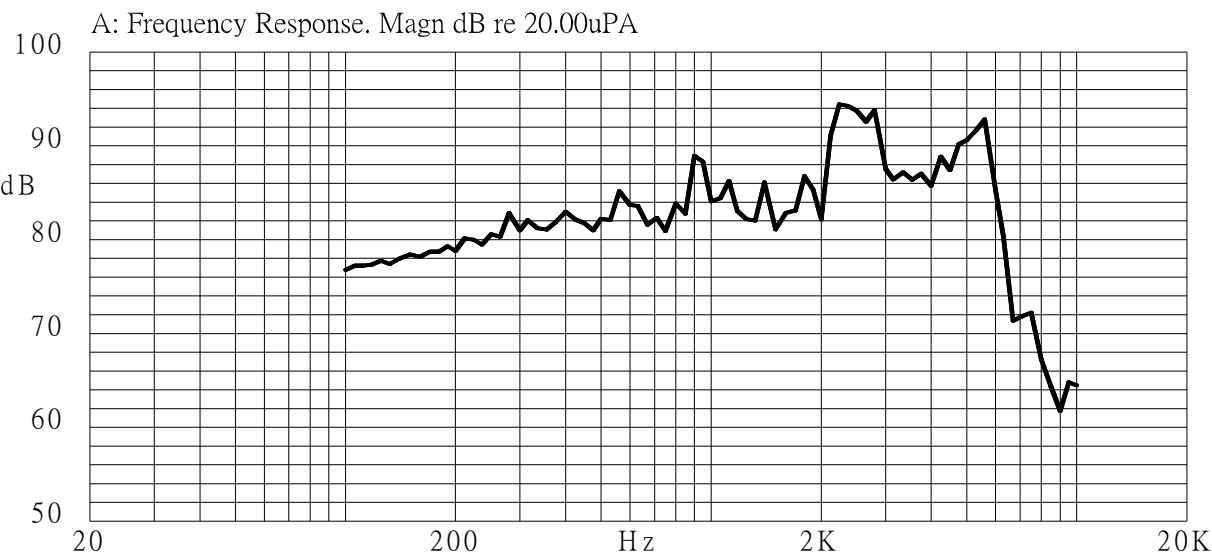
This specification applies magnetic buzzer, **KCOG0903**

此规格书适用于电磁式蜂鸣器, **KCOG0903**

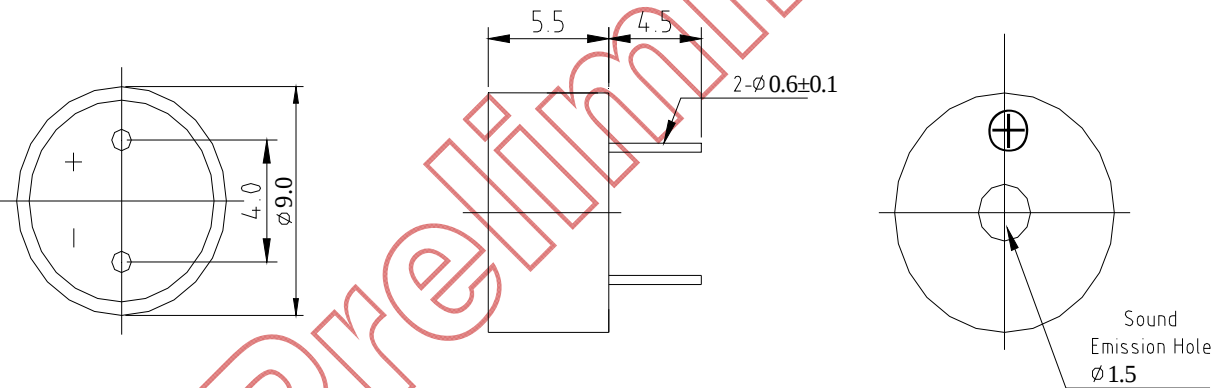
B. SPECIFICATION 规格

No.	Item	Unit	Specification	Condition
1	Rated Voltage 额定电压	Vo-p	3.0	 0V
2	Operating Volt. 操作电压	Vo-p	2.0~4.0	
3	Mean Current 平均耗电流	mA	Max. 80	At rated Voltage 3Vo-p 在额定电压 3Vo-p 时测得
4	Coil Resistance 直流阻抗	Ω	16 ± 3	
5	Sound Output 输出音压	dBA	Min.85 (Typical 91)	Distance at 10cm(A-weight free air). Applying rated voltage 2731Hz,square wave, 1/2duty 在自由音场 10 公分处,施以额定电压,2731Hz,方 波,50%负载
6	Rated Frequency 额定频率	Hz	2731	
7	Operating Temp. 操作温度	$^{\circ}\text{C}$	-20 ~ +70	
8	Storage Temp. 储存温度	$^{\circ}\text{C}$	-30 ~ +80	
9	Dimension 尺寸	mm	$\phi 9.0 \times H5.5$	See attached drawing. 请参照外观尺寸图
10	Piece weight/Out Box weight 单重 / 箱重	gram	0.7/6000	
11	Material 材质		PBT (Black)	
12	Terminal 端子		Pin type (Plating Sn) 镀锡	See attached drawing. 请参照外观尺寸图
13	Environmental Protection Regulation 环保法规		RoHS2.0	
14	Storage life 保存期限	month	6	6 months preservation at room temp.(25 $\pm$ 3 $^{\circ}\text{C}$), Humidity40% 在室温下 25 $\pm$ 3 $^{\circ}\text{C}$,湿度 40%以下可保存 6 个月.

C. TYPICAL FREQUENCY RESPONSE CURVE 频率响应曲线

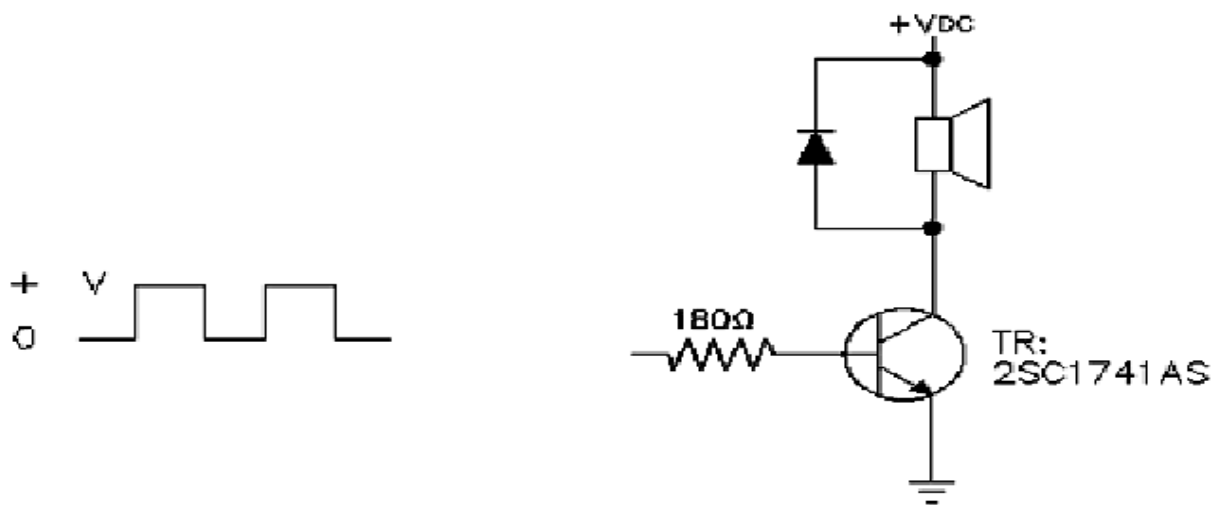


D. APPEARANCE DRAWING 外观尺寸图



Tol: ± 0.5
Unit: mm

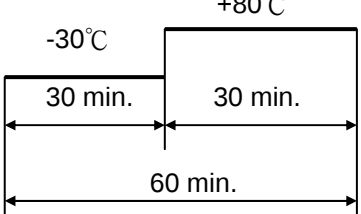
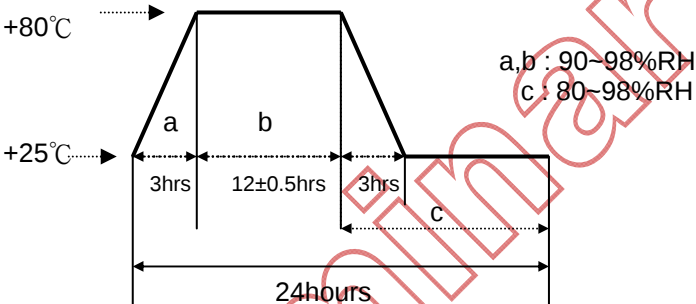
E. MEASUREMENT METHOD 测量方式



F. MECHANICAL CHARACTERISTICS 机械特性

No.	Item	Test condition	Evaluation standard
1	Solderability 焊锡附着性	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5℃ for 3±1 seconds. 端子部份浸入松香溶液 5 秒后,再浸入+270±5℃ 熔融焊锡槽中 3±1 秒.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal) 浸入端子部份附着焊锡 90%以上.(末端断面不算)
2	Soldering Heat Resistance 焊锡耐热性	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5℃ for 10±1 seconds. 距离端子根部 1.5mm 的位置,浸入+260±5℃ 的焊锡槽 10±1 秒.	No interference in operation 操作上无任何不良
3	Terminal Mechanical Strength 端子强度	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction. 各端子的轴方向施以 9.8N (1.0kg) 的力量 10 秒.	No damage and cutting off 端子不松动, 不脱落
4	Vibration 振动测试	Buzzer shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 8 hours. 振动周波数 10~55HZ、全振幅 1.5mm 于 X.Y.Z 3 个方向,各 8 小时.	After the test the part shall meet specifications with-out any damage in appearance and the SPL should be in ±10dBA compared with initial one.
5	Drop test 落下测试	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times). 单体从 75 公分高处, X.Y.Z.3 个方向,各 3 回,落于 40mm 厚木板上.	经测试后,单体除音压外,外观及电气特性须符合规格. 输出音压变化量须±10dBA 内.

G. ENVIRONMENT TEST 环境测试

No.	Item	Test condition	Evaluation standard
1	High temp. test 高温测试	After being placed in a chamber at +80°C for 96 hours. 置于+80°C环境中 96 小时	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25°C. the SPL should be in $\pm 10\text{dBA}$ compared with initial one. 经测试后, 静置于+25°C (室温) 环境中 4 小时后, 单体除音压外, 外观及电气特性须符合规格. 输出音压变化量须在$\pm 10\text{dBA}$ 内.
2	Low temp. test 低温测试	After being placed in a chamber at -30°C for 96 hours. 置于-30°C环境中 96 小时	
3	Thermal Shock 热冲击试验	The part shall be subjected to 10 cycles. One cycle shall consist of; 对单体施以热冲击试验 10 次循环,其循环内容如图示: 	
4	Temp./ Humidity Cycle 温度/湿度循环测试	The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of; 单体承受温度/湿度循环测试 10 次.其循环内容如图示 	

H. RELIABILITY TEST 信赖性测试

No.	Item	Test condition	Evaluation standard
1	Operating life test 寿命测试	1. Continuous life test 高温寿命测试(连续) 72 hours continuous operation at +55°C with rated voltage applied. 在+55°C环境下, 以额定电压连续操作 72 小时. 2. Intermittent life test 室温寿命测试(间歇) A duty cycle of 1 minute on, 1 minutes off, a minimum of 10000 times at room temp.(+25±10°C) and rated voltage applied 在室温下(+25±10°C), 以额定电压操作,通电 1 分钟/断电 1 分钟,测试 10000 次循环.	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25°C. the SPL should be in $\pm 10\text{dBA}$ compared with initial one. 经测试后, 静置于+25°C (室温) 环境中 4 小时后, 单体除音压外, 外观及电气特性须符合规格. 输出音压变化量须在$\pm 10\text{dBA}$ 内.

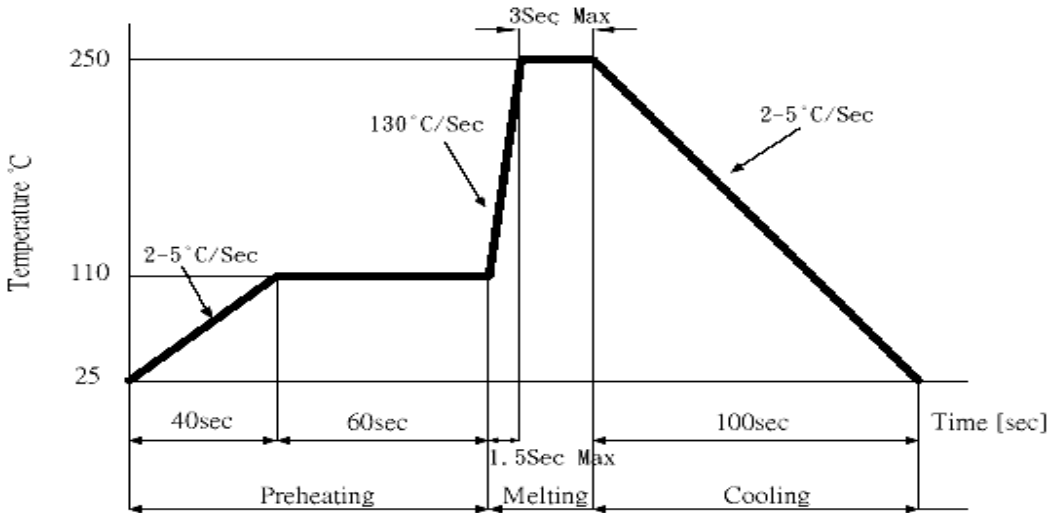
TEST CONDITION.

Standard Test Condition	:	a) Temperature : +5 ~ +35°C	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般测试条件	:	a) 温度 : +5 ~ +35°C	b) 湿度 : 45-85%	c) 气压 : 860-1060mbar
Judgement Test Condition	:	a) Temperature : +25 ± 2°C	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
争议时测试条件	:	a) 温度 : +25 ± 2°C	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar

I. SOLDERING SPEC 焊接规格

手工焊 MANUAL SOLDERING:330℃~360℃,3 秒以内 WITHIN 3 SECS.

波峰焊 WAVE SOLDERING:SEE BELOW DIAGRAM 请参考下图

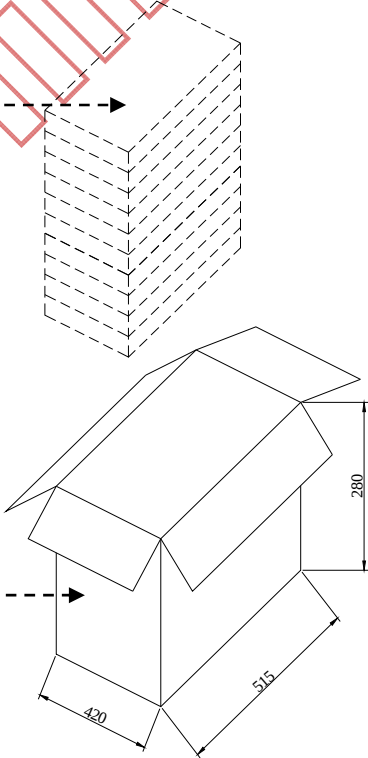


*Wave Soldering can't over 1 time. 波峰焊次数不超过 1 次.

J. PACKING STANDARD 包装规格

Lot No.	XXXXXXXXXX
Part No.	XXXXXXXXXX
Quantity	XXXX Pcs
Date:	WWYY
	HSF
	KINGSTATE ELECTRONICS CORP.

* The label sticked on inner boxes and the outer of carton.



Carton Box	240mm×160mm×280mm	100PCS*10=1000PCS
Out Box	515mm×420mm×280mm	1000PCS*5=5000PCS