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SPECIFICATION FOR APPROVAL

Description : Piezo Audio Indicator
Specification No. : PKD-7344
Number Of The Edition : 1.3

CUSTOMER'S APPROVED SIGNATURE		

Approved by	Checked by	Issued by

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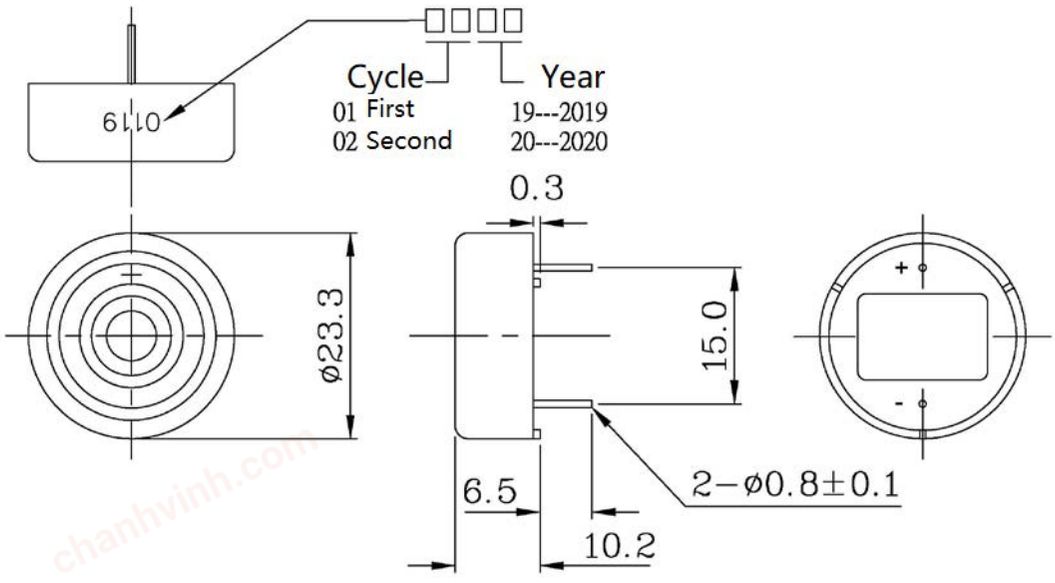
A. SCOPE

This specification applies piezo audio indicator, **KPEG222A**

B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Resonant frequency	KHz	3.2 ± 0.5	
2	Operating` Volt. range	VDC	3 ~ 20	
3	Current consumption	mA	MAX 14	at 12VDC
4	Sound pressure level	dB	MIN 85	at 30cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous	at 12VDC
7	Operating temp.	ºC	-30 ~ +85	
8	Storage temp.	ºC	-40 ~ +95	
9	Dimension	mm	ψ23.3 x H10.2	See appearance drawing
10	Weight (MAX)	gram	5.0	
11	Material		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Terminal		Pin type	See appearance drawing
13	Environmental Protection Regulation		RoHS2.0	

C. APPEARANCE DRAWING

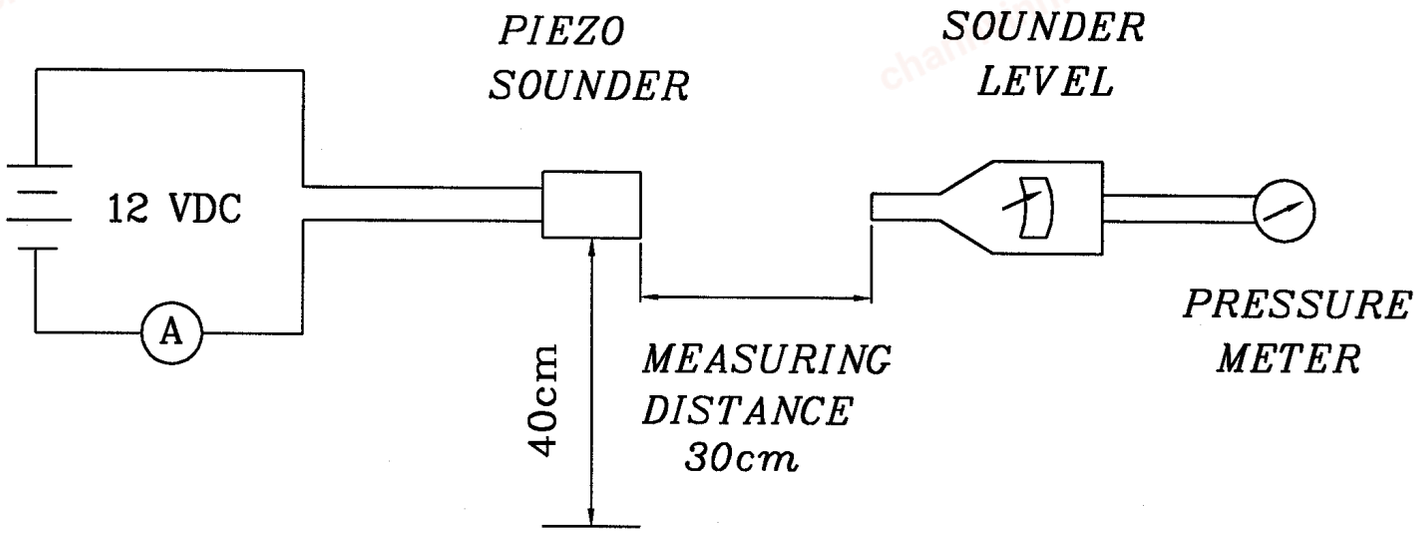


Tol: ± 0.5 **Unit: mm**

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D. Measuring Method

1.S.P.L. Measuring Circuit

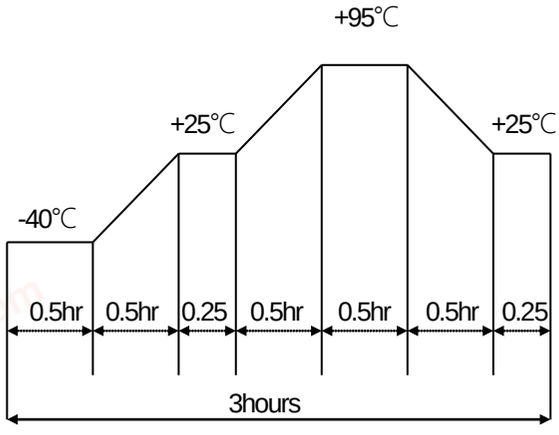


Mic : RION S.P.L meter UC30 or equivalent

E. MECHANICAL CHARACTERISTICS

No.	Item	Test Condition	Evaluation standard
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5℃ for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in soilder bath of +300±5℃ for 3± 0.5 seconds or +260±5℃ for 10±1 seconds.	No interference in operation
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction.	No damage and cutting off
4	Vibration	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 2 hours.	The value of oscillation frequency/ current consumption should be in 10% compared with initial ones .The SPL should be in ± 10dB compared with initial one.
5	Drop test	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).	

F. ENVIRONMENT TEST

No	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95℃ for 240 hours	
2	Low temp. test	After being placed in a chamber with –40℃for 240 hours	
3	Humidity test	After being placed in a chamber at +40℃ and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of: 	Being placed for 4 hours at +25℃, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.

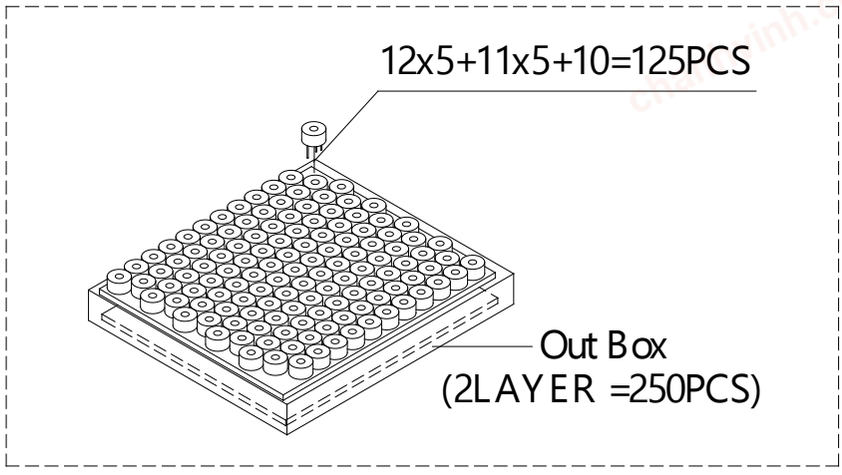
G. RELIABILITY TEST

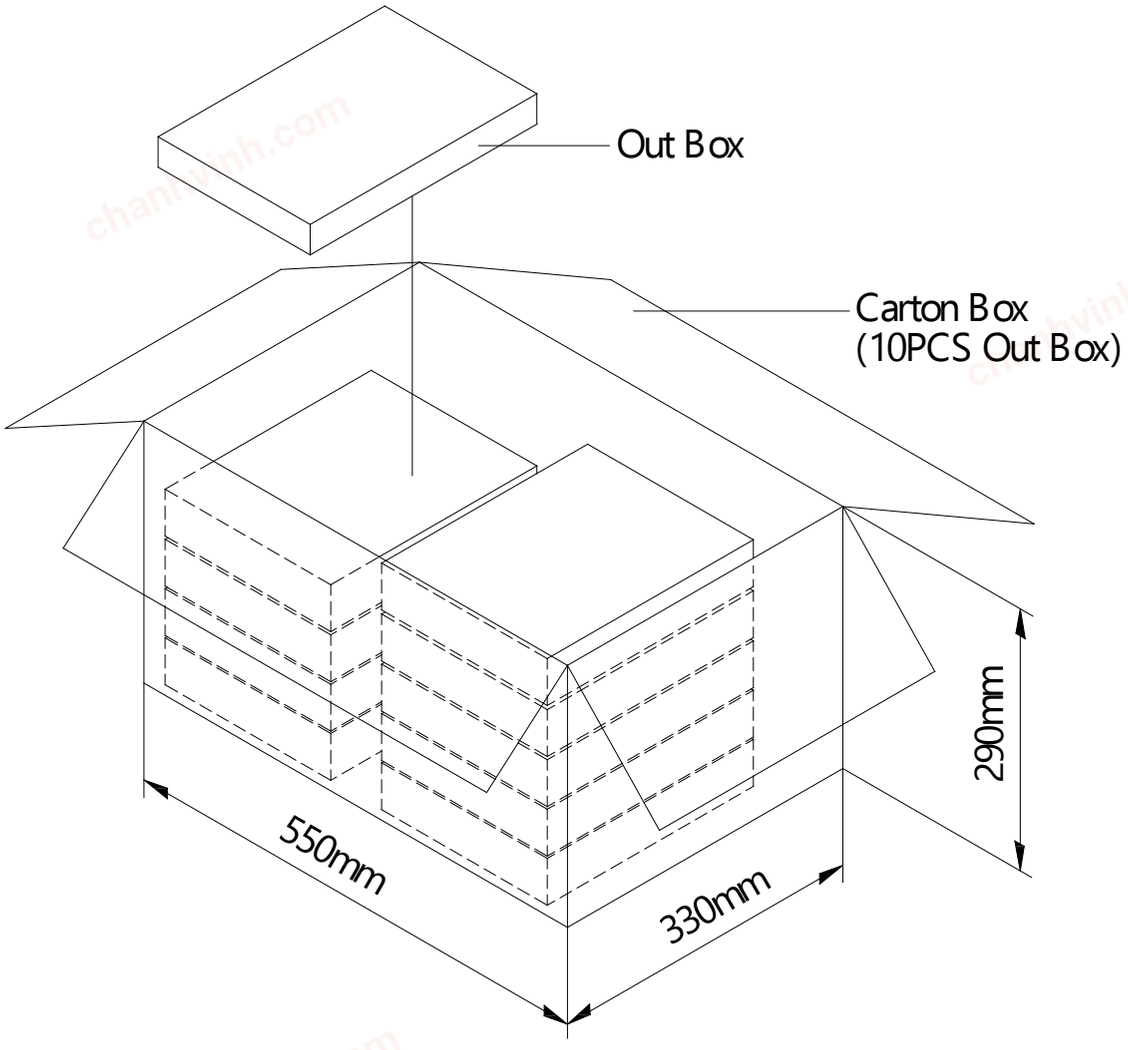
No.	Item	Test condition	Evaluation standard
1	Operating life test	1.Continuous life test 48 hours continuous operation at +70℃ with rated voltage applied. 2.Intermittent life test A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times at room temp.(+25±2℃)and rated voltage applied.	Being placed for 4 hours at +25℃, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in ±10% compared with initial ones .The SPL should be in ±10dB compared with initial one.

TEST CONDITION.

Standard Test Condition	:	a) Temperature : +5 ~ +35ºC	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
Judgement Test Condition	:	a) Temperature : +25±2ºC	b) Humidity : 60-70%	c) Pressure : 860-1060mbar

H. PACKING STANDARD





Out Box	310mmx248mmx49mm	2x125PCS=250PCS
Carton Box	550mmx330mmx290mm	250PCSx10=2,500PCS