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

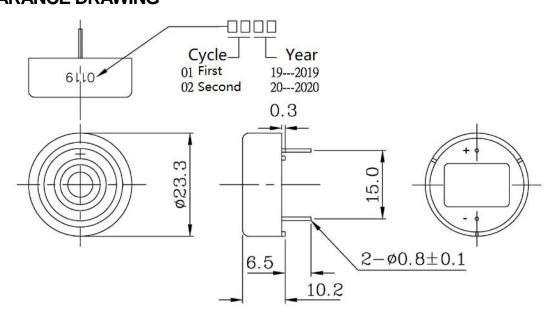
A. SCOPE

This specification applies piezo audio indicator, KPEG222A

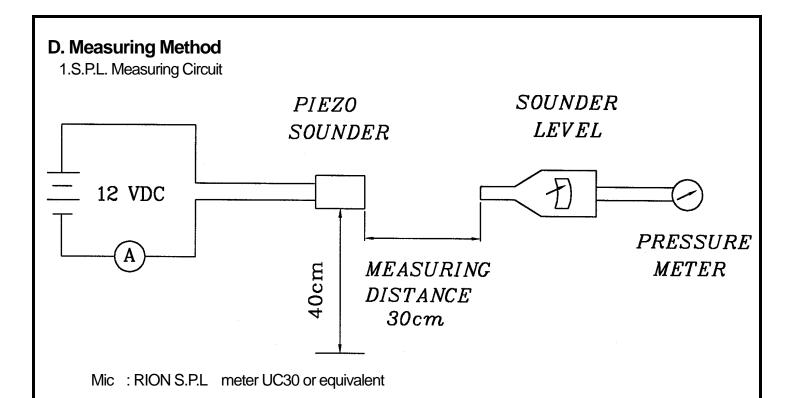
B. SPECIFICATION

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.	©.	-30 ~ +85	
8	Storage temp.	©.	-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



E. MECHANICAL CHARACTERISTICS

No.	ltem	Test Condition	Evaluation standard	
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270 \pm 5 $^{\circ}$ C for 3 \pm 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 $+300\pm5^{\circ}$ C for 3 ± 0.5 seconds or $+260\pm5^{\circ}$ C for 10 ± 1 seconds.	No interference in operation	
3		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.	frequency/ current consumption should be in 10% compared with initial ones. The SPL should be	
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

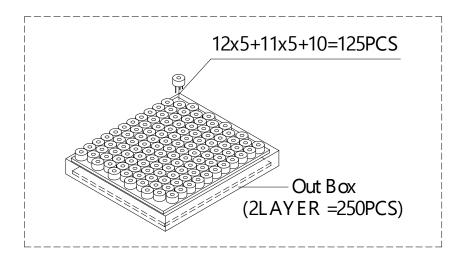
No	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95°⊂ for 240 hours	
2	Low temp. test	After being placed in a chamber with -40°Cfor 240 hours	
3	Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	+95°C +25°C +25°C	Being placed for 4 hours at +25°C, 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.

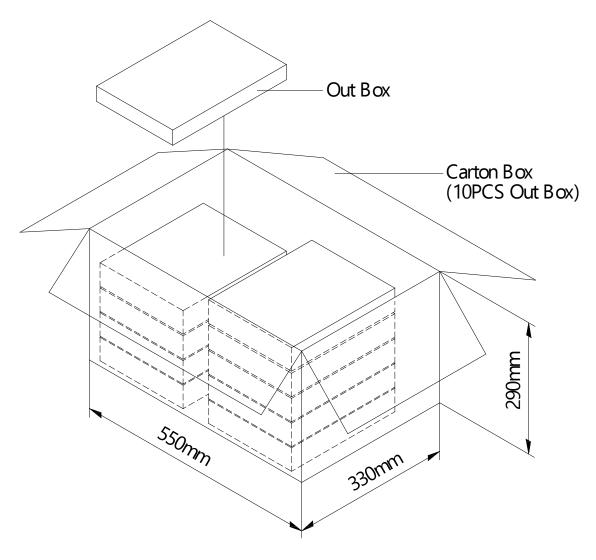
G. RELIABILITY TEST

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° C) and rated voltage applied. 	Being placed for 4 hours at +25°C, 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.

H. PACKING STANDARD





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