SPECIFICATION FOR APPROVAL

Description	:	Piezo Audio Indicator
Customer's Model No.	:	
Specification No.	:	PKD-7407
Number Of The Edition	:	1.3

CUSTOMER'S APPROVED SIGNATURE			

Approved by	Checked by	Issued by
		陽志明 2020.02.27

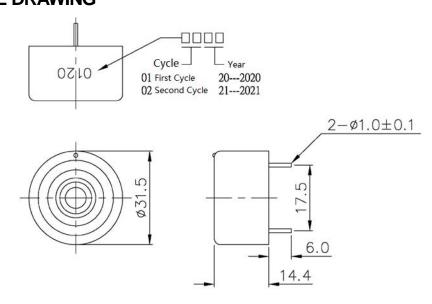
A. SCOPE

This specification applies piezo audio indicator, **KPEG272**

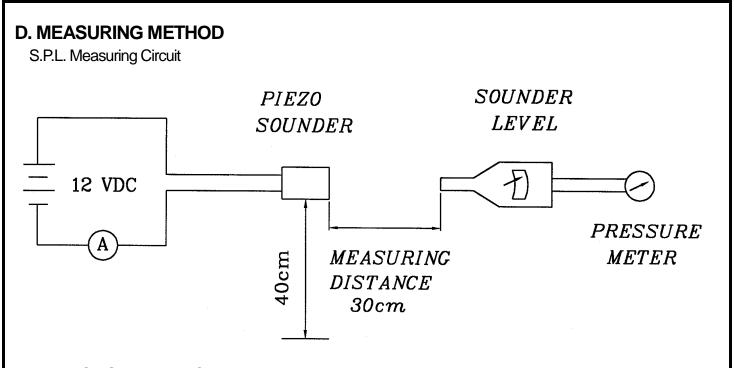
B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Resonant frequency	KHz	3.5 ± 0.5	
2	Operating Volt. range	VDC	3~28	
3	Current consumption	mA	MAX 6	at 12VDC
4	Sound pressure level	dB	MIN 88	at 30cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous	
7	Operating temp.	$^{\circ}$	-30 ~ +85	
8	Storage temp.	$^{\circ}$	-40 ~ +95	
9	Dimension	mm	φ31.5 x H14.4	See appearance drawing
10	Weight (MAX)	gram	7.0	
11	Material		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Terminal		Pin type (Plating Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS2.0	
14	Storage life	month	6	6 months preservation at room temp. (25±3°C), Humidity40%

C. APPEARANCE DRAWING

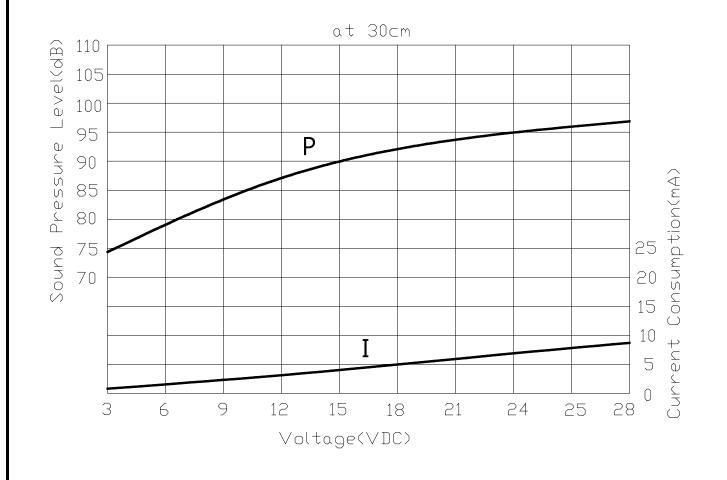


Tol: ± 0.5 Unit: mm



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

E. VOLTAGE: SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION CHARACTERISTICS



F. 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°C 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 $+300\pm5^{\circ}$ C for 3 ± 0.5 seconds or $+260\pm5^{\circ}$ C 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.	frequency/ current consumption should be in 10% compared with
5	Drop test	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). initial ones .The S in ± 10dB comparone.	

G. ENVIRONMENT TEST

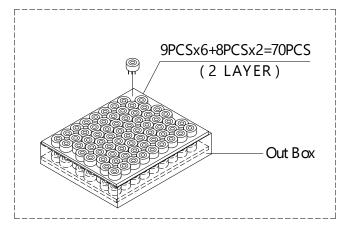
No.	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95° € for 240 hours	
2	Low temp. test	After being placed in a chamber at −40°C for 240 hours	
3	Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of : +95°C +25°C -40°C -0.5hr, 0.5hr, 0.25 3hours	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.

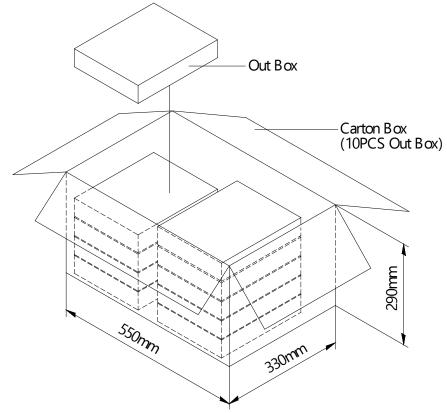
H. RELIABILITY TEST

No.	Item	Test condition	Evaluation standard
1	Operating life test	 1.Continuous life test 48 hours continuous operation at +70°C 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.

I. PACKING STANDARD





Out Box	310mmx248mmx49mm	1x140PCS=140PCS
Carton Box	550mmx330mmx290mm	140PCSx10=1,400PCS