SPECIFICATION FOR APPROVAL

Description:Piezo Audio IndicatorSpecification No.:PKD-7204Number Of The Edition:1.4

CUSTOMER'S APPROVED SIGNATURE			

Approved by	Checked by	Issued by

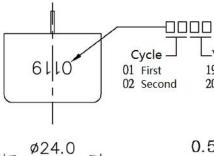
A. SCOPE

This specification applies piezo audio indicator, KPEG208

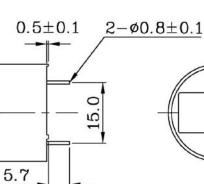
B. SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Resonant frequency	KHz	4.0 ± 0.5	
2	Operating Volt. range	VDC	3~ 20	
3	Current consumption	mA	MAX 14	at 12VDC
4	Sound pressure level	dB	MIN 83	at 30cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous 直音	
7	Operating temp.	°C	-30 ~ +85	
8	Storage temp.	°C	-40 ~ +95	
9	Dimension	mm	φ 24.0 x H17.5	See appearance drawing
10	Weight (MAX)	gram	1.2	
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



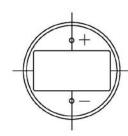




-Year

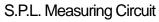
17.5

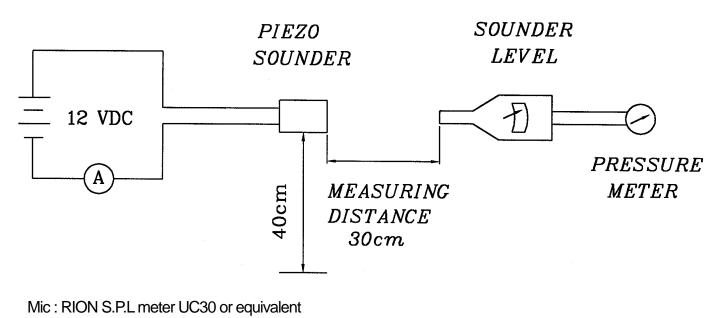
19---2019 20---2020



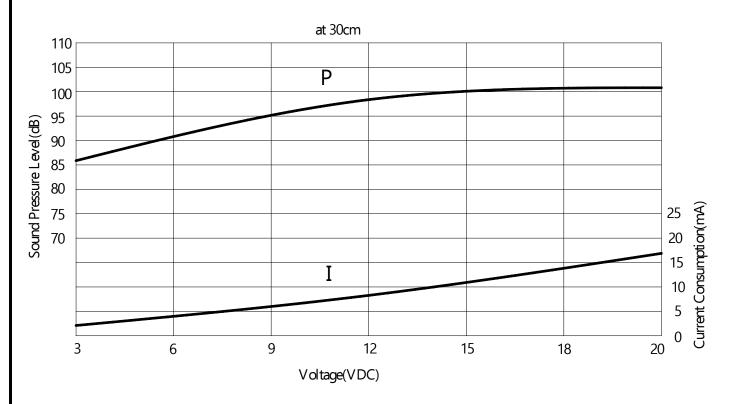








E. VOLTAGE: SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION CHARACTERISTICS



F. 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°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 solder bath of +300±5°C for 3 ± 0.5 seconds or +260±5°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.	The value of oscillation 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).	in ± 10 dB compared with initial one.	

G. ENVIRONMENT TEST

No.	ltem	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95°C 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 $^\circ C$ 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 +25°C +25°C +25°C -40°C 0.5hr 0.25 0.5hr 0.5hr 0.5hr 0.25	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.	ltem	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.

Standard Test Condition	:	a) Temperature : +5 ~ +35 $^{\circ}$ C	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
Judgement Test Condition	:	a) Temperature : +25 ± 2 $^{\circ}$ C	b) Humidity : 60-70%	c) Pressure : 860-1060mbar

I. PACKING STANDARD

