# SPECIFICATION FOR APPROVAL

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Description

**Piezo Audio Indicator** 

Customer's Model No.

Specification No.

Number Of The Edition :

PKD-7251

1.3

CUSTOMER'S APPROVED SIGNATURE		

Approved by	Checked by	Issued by	
		陽志明 2020.04.01	

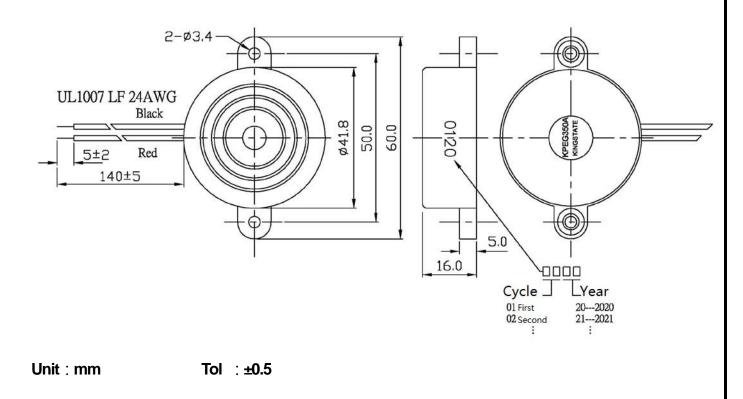
# A.SCOPE

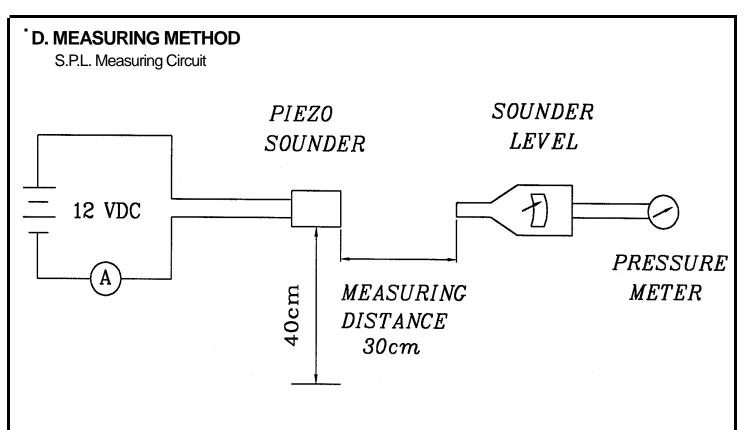
This specification applies piezo audio transducer, KPEG350A

# **B. SPECIFICATION**

No.	ltem	Unit	Specification	Condition
1	Operating Frequency	KHz	2.8±0.5	
2	Operating` Volt. range	VDC	3~20	
3	Operating Current	mA	MAX 15	at 12VDC
4	Sound pressure level	dB	MIN 92	at 30 cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous 直音	at 12VDC
7	Operating temp.	°C	-30 ~ + 85	
8	Storage temp.	°C	-40 ~ + 95	
9	Dimension	mm	ψ <b>41.8 x H16.0</b>	See appearance drawing
10	Weight (MAX)	gram	14.6	
11	Material		ABS UL-94 1/16" HB HIGH HEAT ( BLACK )	
12	Terminal		Wire type	See appearance drawing
13	Environmental Protection Regulation		RoHS 2.0	

# C. APPEARANCE DRAWING





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

S.G : Hewlett Packard 33120A Function Generator or equivalent

No	ltem	Test Condition	Evaluation standard	
1	Solderability (Connector excepted)	Stripped wires of lead wires are immersed in rosin for 5 seconds and	90% min. stripped wires shall be wet with solder.(Except the edge of terminal)	
2	Lead Wire Pull Strength	The pull force shall be applied to double lead wire : Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds.	No damage and cutting off.	
3	Vibration		The value of oscillation frequency/ current consumption should be in± 10% compared with initial ones .The SPL should	
4	Drop test	ו דו הביטמוג טרווע פרומוו טב עוטטטבע ווטרד מ דבוערוג טר לטנדר טרוגט מ דערוודר	be in ±10dB compared with initial one.	

#### **E. MECHANICAL CHARACTERISTICS**

No	ltem	Test Condition	Evaluation standard	
1	High temp. test	After being placed in a chamber at +95 $^\circ C$ for 240 hours		
2	Low temp. test	After being placed in a chamber with $-40^{\circ}$ Cfor 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	+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.	ltem	Test condition	Evaluation standard
1	Operating life test	<ul> <li>1.Continuous life test</li> <li>48hours continuous operation at +70°C with rated voltage applied.</li> <li>2.Intermittent life test</li> <li>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.</li> </ul>	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.		
	rd Test Condition		essure : 860-1060mbar
Judgen	nent Test Conditio	n : a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pre	essure : 860-1060mbar

