

# AS PRO

## **Datasheet**

### RS PRO Piezo Audio Indicator

EN



#### A. SCOPE

This specification applies piezo audio indicator, 1812664

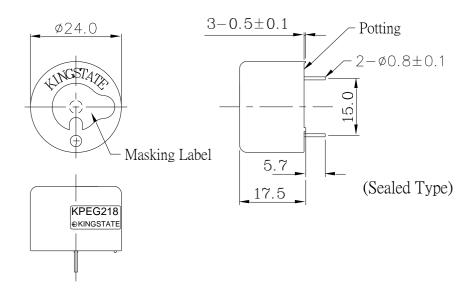
#### **B. SPECIFICATION**

No.	Item	Unit	Specification	Condition
1	Resonant frequency	KHz	3.8 ± 0.5	
2	Operating Volt. range	VDC	3~ 26	
3	Current consumption	mA	MAX 15	at 12VDC
4	Sound pressure level	dB	MIN 88	at 30cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous	
7	Operating temp.	$^{\circ}\! C$	-30 ~ +85	
8	Storage temp.	$^{\circ}\!\mathbb{C}$	-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 (Plating Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	
14	Storage life	month	6	6 months preservation at room temp.(25±3°C), Humidity40%





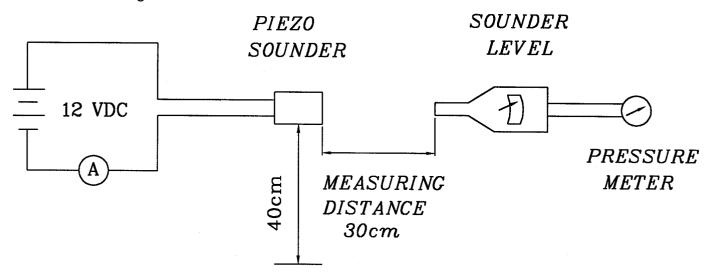
#### C. APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

#### **D. MEASURING METHOD**

S.P.L. Measuring Circuit

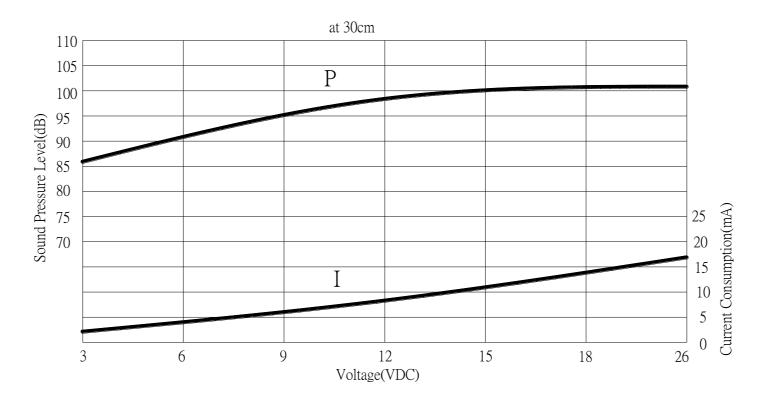


Mic: RION S.P.L meter UC30 or equivalent





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



#### F. MECHANICAL CHARACTERISTICS

No. Item Test Condition Evaluation sta					
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±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 in ± 10dB compared with initial one.		
5	Drop test				





#### G. ENVIRONMENT TEST 環境測試

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℃ for 240 hours	
3	Humidity test	After being placed in a chamber at +40 $^{\circ}\!$	
4	Temp. cycle test	consist of :  +25°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.

#### H. RELIABILITY TEST

No.	Item	Test condition	Fvaluation
1	Operating life test	<ul> <li>1.Continuous life test</li> <li>48 hours 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.**

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



