



## **Datasheet**

## RS PRO Piezo Audio Indicator

EN



### A. SCOPE

This specification applies piezo audio indicator, 1812660

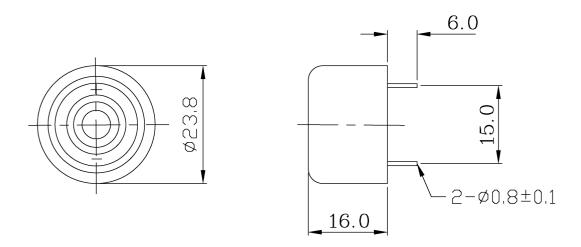
### **B. SPECIFICATION**

No.	Item	Unit	Specification	Condition
1	Resonant frequency	KHz	2.9 ± 0.5	
2	Operating` Volt. range	VDC	3 ~ 20	
3	Current consumption	mA	MAX 6	at 12VDC
4	Sound pressure level	dB	MIN 78	at 30cm/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 23.8 x H16.0	See appearance drawing
10	Weight (MAX)	gram	7.0	
11	Material		ABS UL-94 1/16" HB HIGH HEAT (GRAY)	
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%



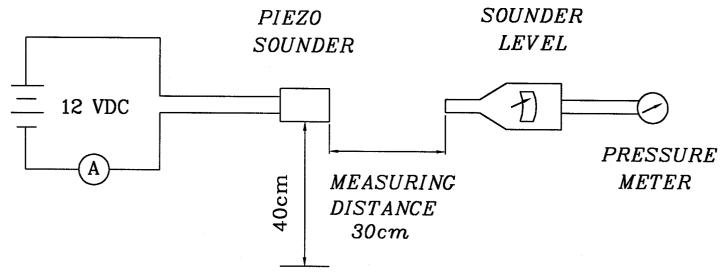


### C. APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

### **D. Measuring Method**



1. S.P.L. Measuring Circuit

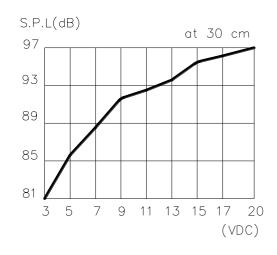
Mic : RION S.P.L meter UC30 or equivalent





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





### F. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	<b>Evaluation standard</b>	
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5℃ 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 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.	he value of oscillation equency/ current onsumption should be in 0% compared with initial	
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).	ones .The SPL should be in ± 10dB compared with initial one.	





### **G. ENVIRONMENT TEST**

No.	Item	Test Condition	<b>Evaluation standard</b>
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℃ for 240 hours	
3	Humidity test	After being placed in a chamber at +40℃ and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	consist of:  +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.

## H. RELIABILITY TEST 信賴性測試

No.	Item	Test condition	Evaluation standard
1	Operating life test	<ul> <li>1.Continuous life test 48hours continuous operation at +70°C with rated voltage applied.</li> <li>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.</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



