



# Datasheet RS PRO Piezo Audio Indicator

EN RS Stock: 181-2712



## A. SCOPE

This specification applies piezo audio indicator, 1812691

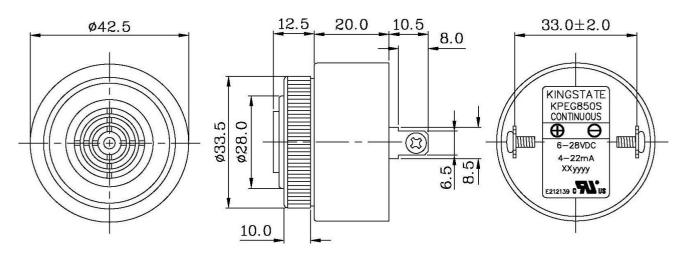
## **B. SPECIFICATION**

No.	ltem	Unit	Specification		Condition	
1	Resonant frequency	KHz	2.8 ± 0.5			
2	Operating Volt. range	VDC	6 ~ 28			
3	Current	mA	MAX 4 MAX	MAX 22	6VDC	28VDC
4	consumption Sound pressure level	dB	MIN 68 MIN 68	MIN 80	at 60cm/6VDC	at 60cm/28VDC
5	Rated Voltage	VDC	1	2		
6	Tone		Contir 直			
7	Operating temp.	°C	-30 ~	+85		
8	Storage temp.	°C	-40 ~	+85		
9	Dimension	mm	φ <b>42.5</b> :	x H32.5	See appeara	ance drawing
10	Weight (MAX)	gram	37	<i>.</i> .0		
11	Material		NYLON UL-94 V-0 (BLACK)			
12	Terminal		Tin-Plated Tapped Screw (/Plating Sn)		See appeara	ance drawing
13	Environmental Protection Regulation		Ro	HS		
14	Storage life	month	6	3		ation at room temp. lumidity40%



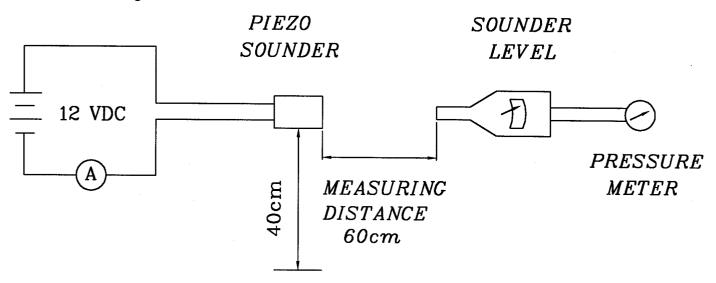


# C. APPEARANCE DRAWING



#### Tol : ± 0.5 Unit:mm D. MEASURING METHOD

S.P.L. Measuring Circuit



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





# **E. MECHANICAL CHARACTERISTICS**

		Test condition		
No.	ltem		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 soilder bath of $+300\pm5^{\circ}$ for $3\pm0.5$ seconds or $+260\pm5^{\circ}$ for $10\pm1$ 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 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).		

## F. ENVIRONMENT TEST

No.	ltem	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85 $^\circ\!\mathrm{C}$ for 240 hours	
2	Low temp. test	After being placed in a chamber with $-40^{\circ}$ 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	+85°C +25°C +25°C +25°C	





# G. RELIABILITY TEST

No.	Item	Test condition	Evaluation
1	Operating life test	<ul> <li>1.Continuous life test</li> <li>250 hours continuous operation at +85°C with rated voltage applied.</li> <li>2.Intermittent life test</li> <li>A duty cycle of 1 minute on, 5 minutes off, a minimum of 10000 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 ~ +35 $^\circ\mathrm{C}$ b) Humidity : 45-85%	c) Pressure : 860-1060mbar
Judgement Test Condition:	a) Temperature : +25 $\pm$ 2°C b) Humidity : 60-70%	c) Pressure : 860-1060mbar



