



# Datasheet RS PRO Piezo Audio Indicator EN



### A. SCOPE

This specification applies piezo audio indicator 1812693

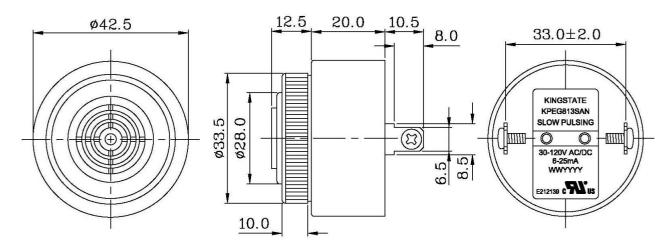
#### **B. SPECIFICATION**

No.	ltem	Unit	Specification		Condition	
1	Resonant frequency	KHz	2.8 ± 0.5			
2	Operating Volt. range	AC/DC	30 ~ 120			
3	Current consumption	mA	MAX 6 MAX	MAX 25	at 30VAC/DC at 110	at 120VAC/DC VDC
4	Sound pressure	dB	MIN 68	MIN 80	at 60cm,30VAC/DC	at 60cm,120VAC/DC
L	level	-	MIN 76		at 60cm/110VDC	
5	Rated Voltage	VDC	110			
6	Tone		Slow Pulse (1	.0Hz <b>±</b> 20%)		
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	nce drawing
10	Weight (MAX)	gram	42.	0		
11	Material		NYLON UL-94 V	-0 (BLACK)		
12	Terminal		Tin-Plated Tapped Screw (Plating Sn)		See appearance drawing	
13	Environmental Protection Regulation		Roł			
14	Storage life	month	6		6 months preserva (25±3℃), Hu	



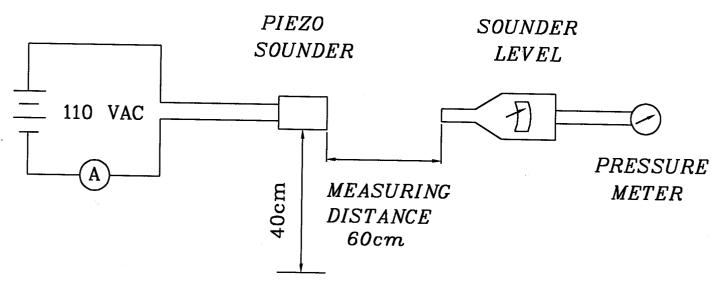


## C. APPEARANCE DRAWING



#### 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**

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			
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	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.	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85 $^\circ \! \mathbb{C}$ for 240 hours	
2	Low temp. test	After being placed in a chamber at –40 $^\circ\!\mathrm{C}$ for 240 hours	
3	Humidity test	After being placed in a chamber at +40 $^\circ\!\mathrm{C}$ and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	+25°C +25°C +25°C	





### G. RELIABILITY TEST

No.	Item	Test condition	<b>Evaluation</b>
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℃, 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 :  $+5 \sim +35^{\circ}$ Cb) Humidity : 45-85%Judgment Test Condition:a) Temperature :  $+25 \pm 2^{\circ}$ Cb) Humidity : 60-70%

c) Pressure : 860-1060mbar

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