



Datasheet

RS PRO Piezo Audio Indicator

EN



A. SCOPE

This specification applies piezo audio indicator, 1812698

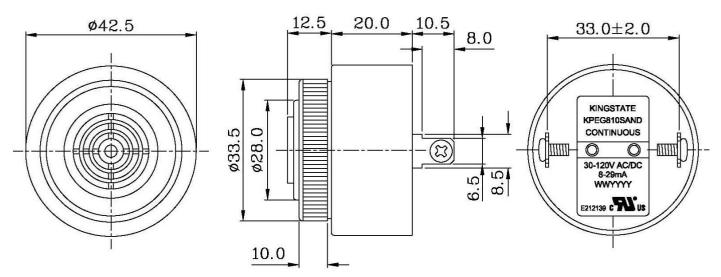
B. SPECIFICATION

No.	Item	Unit	Specification		Condition	
1	Resonant frequency	KHz	1.9 ±	: 0.5		
2	Operating Volt. range	AC/DC	30 ~ 120			
3	Current	mA	MAX 8	MAX 29	at 30VAC/DC	at 120VAC/DC
	consumption		MAX	MAX 17		0VDC
4	Sound pressure	dB	MIN 60	MIN 75	at 60cm,30VAC/DC	at 60cm,120VAC/DC
	level		MIN 70		at 60cm/110VDC	
5	Rated Voltage	VDC	11	0		
6	Tone		Contin	nuous		
7	Operating temp.	$^{\circ}\mathbb{C}$	-30 ~	+85		
8	Storage temp.	$^{\circ}\mathbb{C}$	-40 ~	+85		
9	Dimension	mm	φ 42.5 χ	(H32.5	See appeara	ance drawing
10	Weight (MAX)	gram	38	.0		
11	Material		NYLON UL-94 \	V-0 (BLACK)		
12	Terminal		Tin-Plated Ta (Platin		See appeara	ance drawing
13	Environmental Protection Regulation		Rol	-		
14	Storage life	month	6	i	·	ation at room temp. lumidity40%





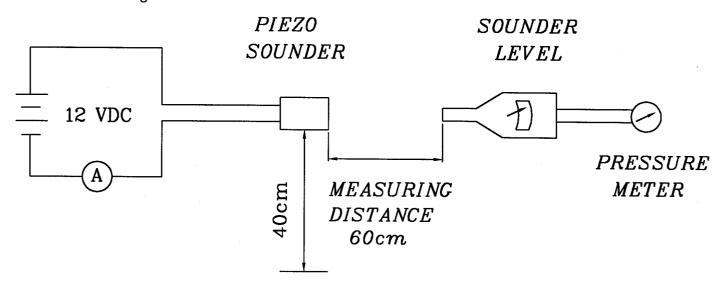
C. APPEARANCE DRAWING



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

No.	Item	Test Condition	Evaluation standard	
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 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.	The value of oscillation frequency/ current consumption should be in ±10% compared with	
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).	initial ones .The SPL	

F. ENVIRONMENT TEST

No.	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +85℃ 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 $^{\circ}\mathrm{C}$ and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	+85°C +25°C +40°C	Being placed for 4 hours a +25°C, buzzer shall be measured. The value of oscillation frequency/ current consumption shoulbe in ±10% compared with initial ones .The SPL shoulbe in ±10dB compared with initial one.





G. RELIABILITY TEST

No.	Item	Test condition	Evaluation
1	Operating life test	250 hours continuous operation at +85°C with rated voltage applied. 2.Intermittent life test 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	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 : $+5 \sim +35^{\circ}\mathbb{C}$ b) Humidity : 45-85% c) Pressure : 860-1060mbar Judgment Test Condition: a) Temperature : $+25 \pm 2^{\circ}\mathbb{C}$ b) Humidity : 60-70% c) Pressure : 860-1060mbar



