



Datasheet RS PRO Piezo Audio Indicator EN



A. SCOPE

This specification applies piezo audio indicator, 1812685

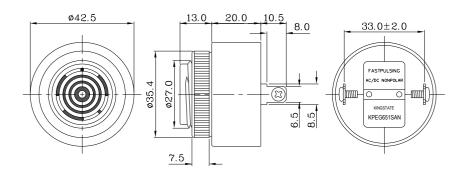
B. SPECIFICATION

No.	ltem	Unit	Specification		Condition	
1	Resonant frequency	KHz	2.8 ± 0.5			
2	Operating Volt. range	AC/DC	6 ~ 12			
3	Current consumption	mA	MAX 5 MAX 26 MAX 10		at 6VDC at 28VDC at 12VDC	
4	Sound pressure	dB	MIN 68	MIN 80	at 60cm,6VAC/DC	at 60cm,28VAC/DC
	level		MIN 74		at 60cm/12VDC	
5	Rated Voltage	VDC	12			
6	Tone		Fast Pulse (3.0Hz±20%)		at 12VDC	
7	Operating temp.	°C	-30 ~ +85			
8	Storage temp.	°C	-40 ~ +85			
9	Dimension	mm	φ 42.5 x H33.0		See appearance drawing	
10	Weight (MAX)	gram	33.8			
11	Material		ABS UL-94 1/16"HB High Heat (Black)			
12	Terminal		Pin type (Plating Sn)		See appearance drawing	
13	Environmental Protection Regulation		Roł	IS		
14	Storage life	month	6		6 months preservation at room temp.(25 $\pm 3^{\circ}$ C), Humidity40%	



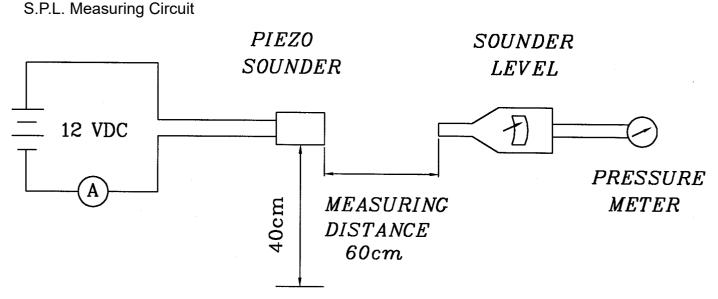


C. APPEARANCE DRAWING



Tol : ± 0.5 Unit:mm

D. MEASURING METHOD



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±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 $+300\pm5^{\circ}$ C for 3 ± 0.5 seconds or $+260\pm5^{\circ}$ 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	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 $^\circ\!\mathrm{C}$ for 240 hours	
2	Low temp. test	After being placed in a chamber at -40° 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 -40°C	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.





G. RELIABILITY TEST

No.	ltem	Test condition	Evaluation
1	Operating life test	 Continuous life test 48 hours continuous operation at +70°C with rated voltage applied. 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 	Being placed for 4 hours at $+25^{\circ}$ C, buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in ± 10 dB compared with initial one.

TEST CONDITION.

Standard Test Condition:	a) Temperature : +5 ~ +35 $^\circ\!\!\mathbb{C}$ 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



