



Datasheet

RS PRO Piezo Audio Indicator RS Stock No: 181-2737



A. SCOPE

This specification applies piezo audio indicator, 1812685

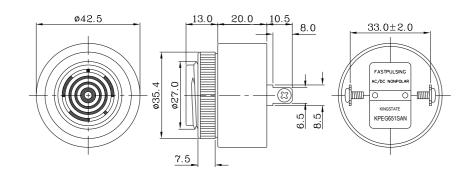
B. SPECIFICATION

No.	Item	Unit	Specification		Condition	
1	Resonant frequency	KHz	2.8 ± 0.5			
2	Operating Volt. range	AC/DC	6 ~ 28			
3	Current consumption	mA	MAX 5	MAX 26	at 6VDC	at 28VDC
	Current consumption		MAX	X 10	at 12VDC	
4	Sound pressure level	dB	MIN 68	MIN 80	at 60cm,6VAC/DC	at 60cm,28VAC/DC
			MIN 74		at 60cm/12VDC	
5	Rated Voltage	VDC	12	2		
6	Tone		Fast Pulse (3.0Hz±20%)		at 12VDC	
7	Operating temp.	$^{\circ}\!\mathbb{C}$	-30 ~	+85		
8	Storage temp.	$^{\circ}\!\mathbb{C}$	-40 ~	+85		
9	Dimension	mm	φ 42.5 >	(H33.0	See appeara	nce drawing
10	Weight (MAX)	gram	33	.8		
11	Material		ABS UL-94 1/16 (Bla			
12	Terminal		Pin t (Platin	<i>7</i> 1	See appeara	nce drawing
13	Environmental Protection Regulation		Rol	HS		
14	Storage life	month	6		6 months preservation ±3°€), Hun	





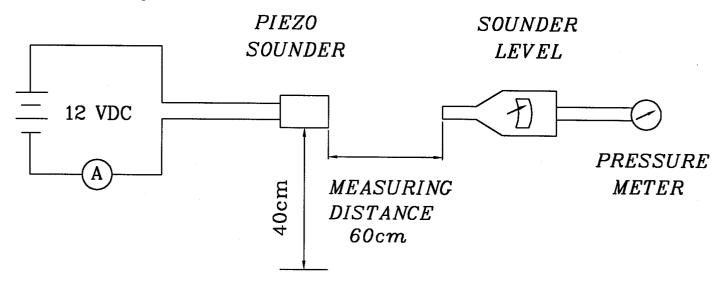
C. APPEARANCE DRAWING



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 $^{\circ}\!$	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 $3\pm$ 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	
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.	

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 $^{\circ}\!$	
4	Temp. cycle test	consist of:: +85°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.





G. RELIABILITY TEST

No.	Item	Test condition	Evaluation
1	Operating life test	 1.Continuous life test 48 hours continuous operation at +70°C with rated voltage applied. 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 	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 Judgement Test Condition: a) Temperature : $+25 \pm 2^{\circ}\mathbb{C}$ b) Humidity : 60-70% c) Pressure : 860-1060mbar



