



Datasheet

RS PRO Piezo Audio Indicator

EN



A. SCOPE

This specification applies piezo audio indicator, 1812684

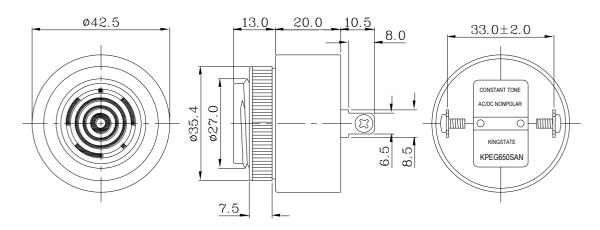
B. SPECIFICATION 規格

No.	Item	Unit	Specification	Condition
1	Resonant frequency	KHz	2.8 ± 0.5	
2	Operating Volt. range	AC/DC	4 ~ 28	
3	Current consumption	mA	MAX 7	at 12VDC
4	Sound pressure level	dB	MIN 81	at 30cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous	at 12VDC
7	Operating temp.	$^{\circ}\!\mathbb{C}$	-30 ~ +85	
8	Storage temp.	$^{\circ}\!\mathbb{C}$	-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		Tin-Plated Tapped Screw (Plating Sn)	See appearance drawing
13	Environmental Protection Regulation		RoHS	
14	Storage life	month	6	6 months preservation at room temp. (25±3°C), Humidity40%



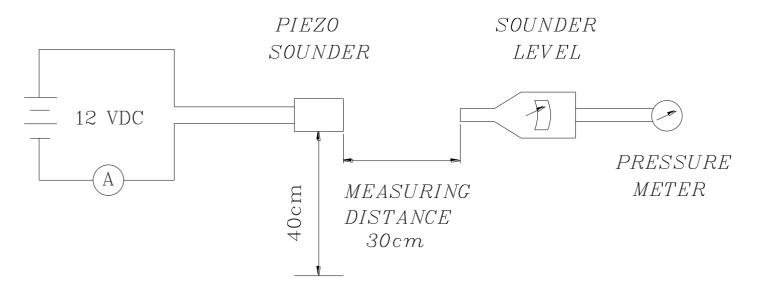


C. APPEARANCE DRAWING



Tol: ± 0.5
Unit:mm

D. MEASURING METHOD
S.P.L. Measuring Circuit



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





F. 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 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 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

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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 +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	Fvaluation
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



