

AS PRO

Datasheet

RS PRO Piezo Audio Indicator

EN



A. SCOPE

This specification applies piezo audio indicator, 1812647

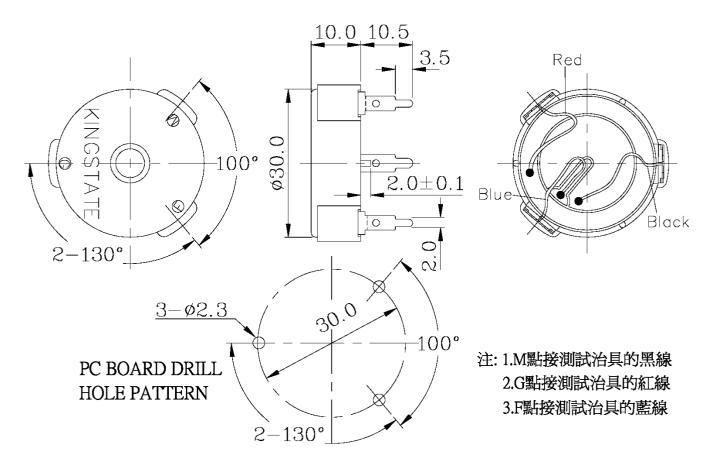
B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Operating Frequency	KHz	3.6 ± 0.5	
2	Operating Volt. range	VDC	3 ~ 28	
3	Operating Current	mA	MAX 7	at 12VDC
4	Sound pressure level	dB	MIN 82	at 30 cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous	
7	Operating temp.	$^{\circ}$	-20 ~ +60	
8	Storage temp.	$^{\circ}\! \mathbb{C}$	-30 ~ +70	
9	Dimension	mm	φ 30.0 x H10.0	See appearance drawing
10	Weight (MAX)	gram	5.6	
11	Material		ABS UL-94 1/16" HB	
12	Terminal		Pin type (/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%





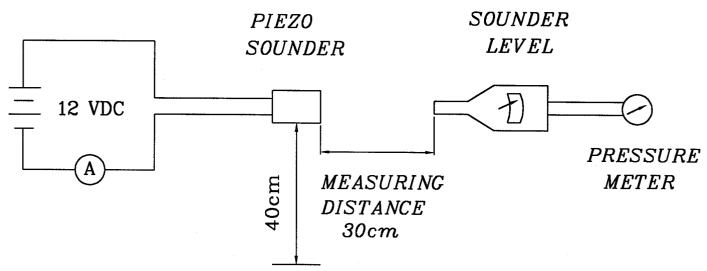
C. APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

D. MEASURING METHOD

1. S.P.L. Measuring Circuit



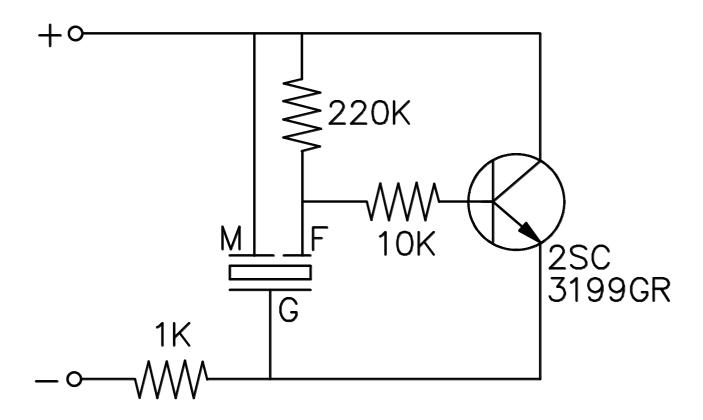
Mic: RION S.P.L. meter UC30 or equivalent



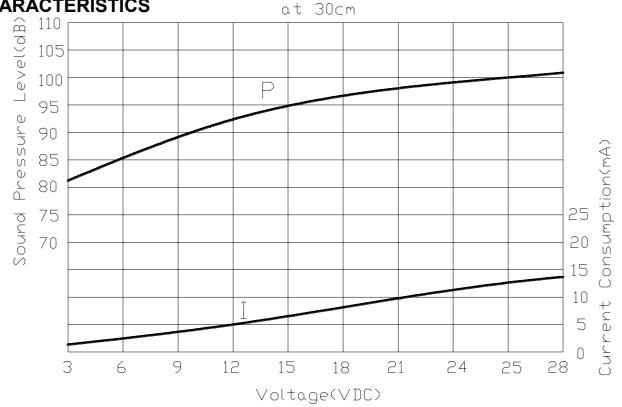


2. The current consumption and the sound pressure level are measured by using the recommend driving

circuit shown as below (one example)



E. VOLTAGE: SOUND PRESSURE LEVEL / VOLTAGE: CURRENT CONSUMPTION CHARACTERISTICS







F. MECHANICAL CHARACTERISTICS

No.	Item	Test Condition	Evaluation standard	
1	Solder ability		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 solider bath of +300±5 $^{\circ}$ C for 3±0.5 seconds or +260±5 $^{\circ}$ C for 10±1 seconds.		
3	Terminal Strength Pulling	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		
5	Drop test	a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a	ones .The SPL should be in ±10dB compared with initial one.	

G. ENVIRONMENT TEST

C. LIVINGIAMENT TEGT							
No.	ltem	Test Condition	Evaluation standard				
1	High temp. test	After being placed in a chamber at +70°C for 240 hours					
2	Low temp. test	After being placed in a chamber at −30°C for 240 hours					
3	Humidity test	After being placed in a chamber at +40 $^{\circ}\!$	Dain a what a different have an				
4	Temp. cycle test	consist of:: +70°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.				





H. RELIABILITY TEST

No.	Item	Test condition	Evaluation standard
1	Operating life test	 1.Continuous life test 48 hours continuous operation at +45°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 : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mbar a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar



