



Datasheet

RS PRO Piezo Audio Indicator



RS Stock No: 181-2766



A. SCOPE

This specification applies piezo audio siren, 1812701

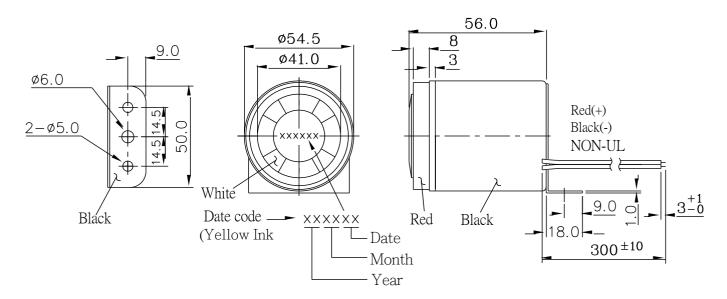
B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Operating Frequency	KHz	2 ~ 4	
2	Operating Volt. range	VDC	6 ~ 16	
3	Current consumption	mA	MAX 260	at 12VDC
4	Sound pressure level	dB	MIN 105	at 100 cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Siren	
7	Operating temp.	$^{\circ}\!\mathbb{C}$	-20 ~ + 60	
8	Storage temp.	$^{\circ}\!\mathbb{C}$	-30 ~ + 70	
9	Dimension	mm	φ 54.5 x H56.0	See appearance drawing
10	Weight (MAX)	gram	89.40	
11	Material		ABS UL-94 1/16" HB (BLACK)	
12	Terminal		Wire type	See appearance drawing
13	Environmental Protection Regulation		RoHS	





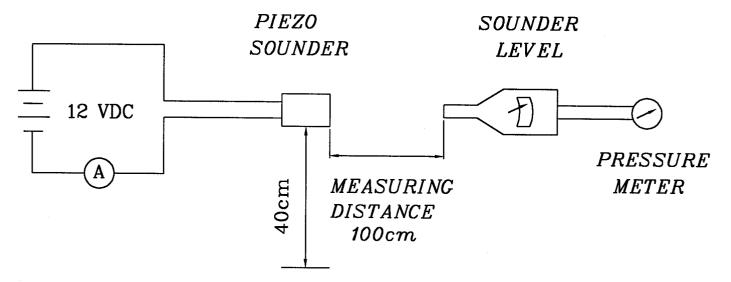
C. APPEARANCE DRAWING



Tol : ± 0.5 Unit: mm

D. MEASURING METHOD

1. S.P.L. Measuring Circuit

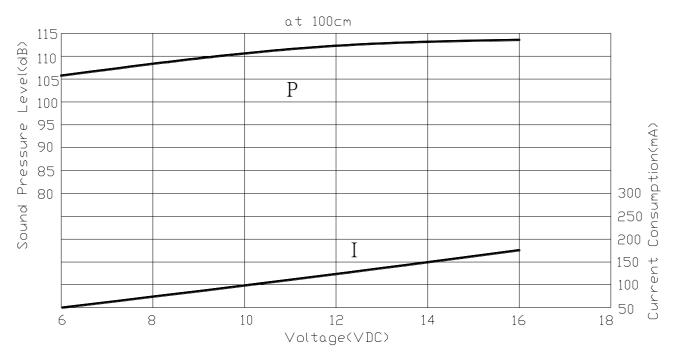


Mic: RION S.P.L. meter UC30 or equivalent





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



F. MECHANICAL CHARACTERISTICS

No.	Item	Test Condition	Evaluation standard	
1	Solderability (Connector excepted)	seconds and then immersed in solder bath of $\pm 270 \pm 5^{\circ}$ C for	90% min. stripped wires shall be wet with solder.(Except the edge of terminal)	
2	Lead Wire Pull Strength	The pull force shall be applied to double lead wire: Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds.	No damage and cutting off.	
3	Vibration	amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	consumption should be in ±10% compared with initial	
4	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

No	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at + 70℃ for 240 hours	
2	Low temp. test	After being placed in a chamber with −30°C for 240 hours	
3	Humidity test	After being placed in a chamber at +40 $^{\circ}\!$	
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
1	Operating life test	 applied. 2.Intermittent life test A duty cycle of 1 minute on, 0.5 minutes off, a of 960 times at room temp.(+25 ±2°C) and maximum 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 Judgment Test Condition: a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar



