



Datasheet

RS PRO Piezo Audio Indicator

EN RS Stock No: 181-2760



A.SCOPE

This specification applies piezo audio transducer, 1812700

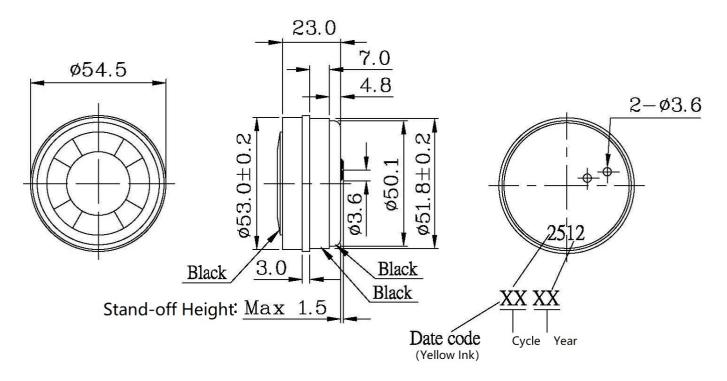
B. SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Operating Volt.	Vp-p	MAX. 150	
2	Current consumption	mA	MAX. 30	at 90Vp-p,sine wave,3.5KHz.
3	Sound pressure level	dB	MIN. 95	at 100cm/90Vp-p,sine wave,3.5KHz.
4	Electrostatic capacity	pF	30,000 ± 30%	at 1KHz/0.25V
5	Operating temp.	°C	-20 ~ +60	
6	Storage temp.	٥С	-30 ~ +70	
7	Dimension	mm	φ 54.5 x H23.0	See appearance drawing
8	Weight (MAX)	gram	35.0	
9	Material		ABS UL-94 1/16" HB	
10	Terminal		Terminal	See appearance drawing
11	Environmental Protection Regulation		RoHS	



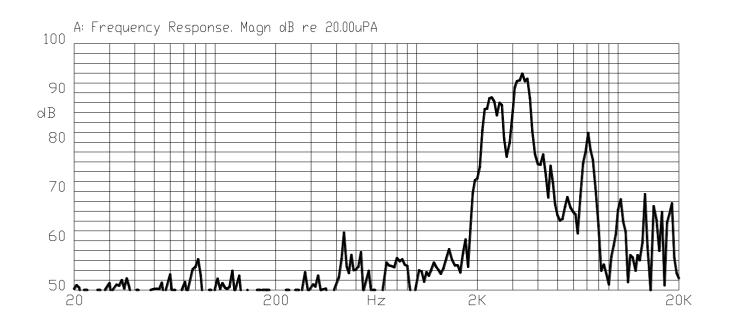


C. APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

D. TYPICAL FREQUENCY RESPONSE CURVE



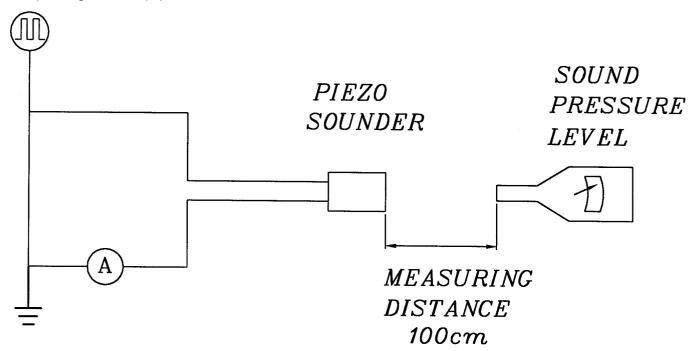




E. MEASURING METHOD

S.P.L. Measuring Circuit

Input Signal: 90Vp-p,3.5kHz, Sine Wave



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

S.G: Hewlett Packard 33120A Function Generator or equivalent

F. MECHANICAL CHARACTERISTICS

No.	Item	Test Condition	Evaluation standard
1	vibration		frequency/ current consumption should be in +10% compared with initial
2	Dorn 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)	





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	The part shall be subjected to 5 cycles. One cycle shall be consist of: +70°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 Judgment Test Condition: a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar



