



Datasheet RS PRO Piezo Audio Indicator EN



A.SCOPE

This specification applies piezo audio transducer, 1812653

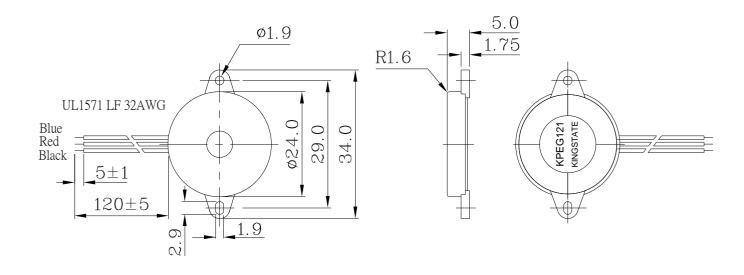
B.SPECIFICATION

No.	ltem	Unit	Specification	Condition
1	Resonant frequency	KHz	4.5 ± 0.5	
2	Operating` Volt. range	VDC	3 ~ 28	
3	Current consumption	mA	MAX 13	at 12VDC
4	Sound pressure level	dB	MIN 83	at 30cm/12VDC
5	Rated Voltage	VDC	12	
6	Tone		Continuous	
7	Operation temp.	٥C	-30 ~ + 85	
8	Storage temp.	٥C	-40 ~ + 95	
9	Dimension	mm	φ 24.0 x H5.0	See appearance drawing
10	Weight (MAX)	gram	7.4	
11	Material		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
12	Terminal		Wire type	See appearance drawing
13	Environmental Protection Regulation		RoHS	

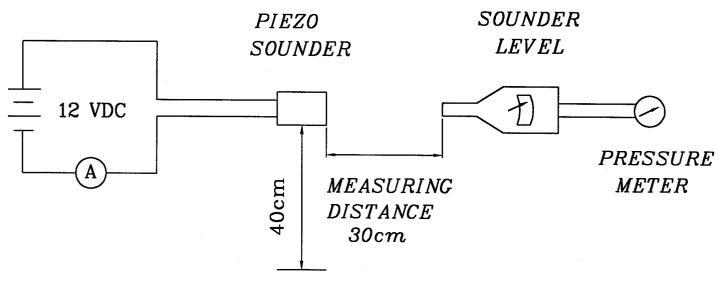




C. APPEARANCE DRAWING







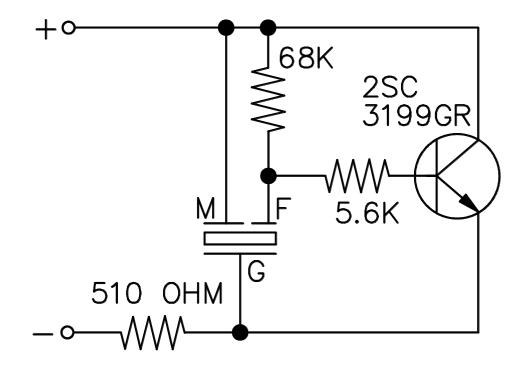
Mic : RION S.P.L meter UC30 or equivalent



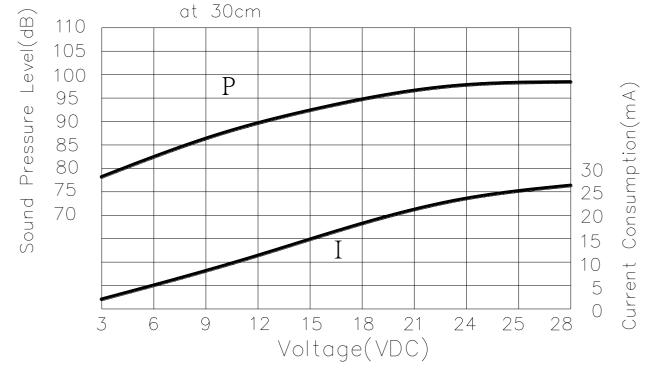


2. The current consumption and the sound pressure level are measured by using the recommend driving

circuit shown as below (one example)



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







F. MECHANICAL CHARACTERISTICS

No.	ltem	Test Condition	Evaluation standard
1	Solderability (Connector excepted)	seconds and then immersed in solder bath of $+270+5^{\circ}$ 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		The value of oscillation frequency/ current 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.	ltem	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95 $^\circ\!\mathrm{C}$ for 240 hours	
2	Low temp. test	After being placed in a chamber with –40 $^\circ\!\mathrm{C}$ 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	+95°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.	ltem	Test condition	Evaluation standard
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 ~ +35°C b) Humidity : 45-85%	c) Pressure : 860-1060mbar
Judgement Test Condition:	a) Temperature : +25 ± 2°C b) Humidity : 60-70%	c) Pressure : 860-1060mbar



