



# **Datasheet**

## RS PRO Piezo Audio Indicator

EN RS Sto

RS Stock No: 181-2729



### **A.SCOPE**

This specification applies piezo audio transducer, 1812653

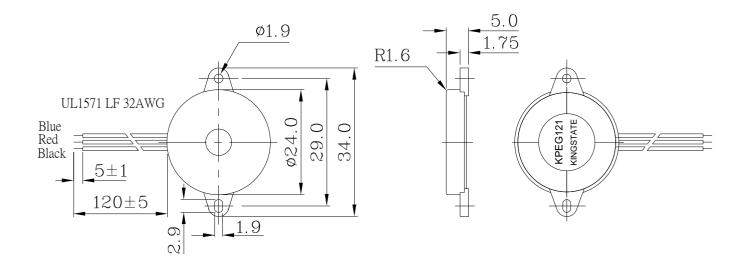
### **B.SPECIFICATION**

No.	Item	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.	°C	-30 ~ + 85	
8	Storage temp.	°C	-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	



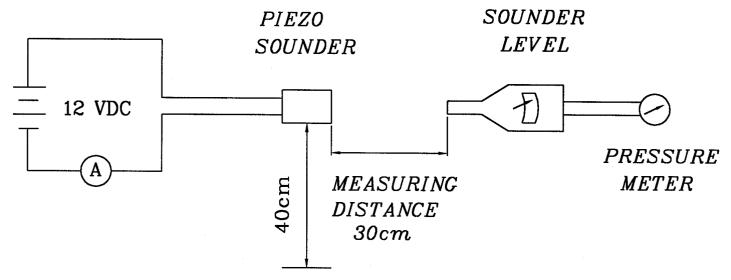


#### C. APPEARANCE DRAWING



Tol : **90.5** Unit : mm

# D. **Measuring Method**1. S.P.L. Measuring Circuit



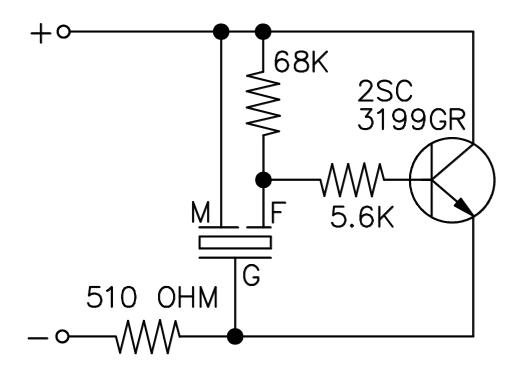
Mic: RION S.P.L meter UC30 or equivalent



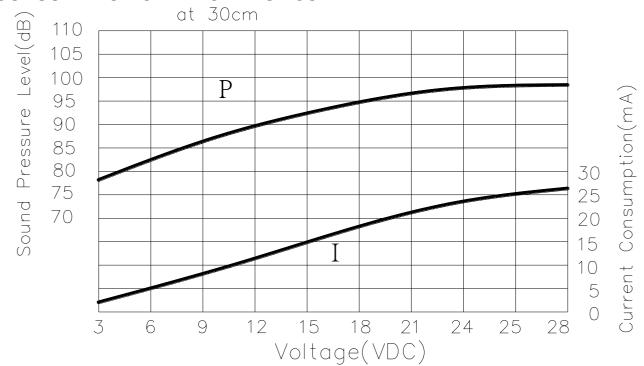


2. The current consumption and the sound pressure level are measured by using the recommend driving

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	Solderability (Connector excepted)	isinooed wires of lead wires are infinersed in fosin for s	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		frequency/ current consumption should be in +10% compared with initial
4	1 1100 1481	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	<b>Evaluation standard</b>
1	High temp. test	After being placed in a chamber at +95°ℂ for 240 hours	
2	Low temp. test	After being placed in a chamber with −40℃ for 240 hours	
3	Humidity test	After being placed in a chamber at +40 $^{\circ}\!$	
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.	Item	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	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 Judgement Test Condition: a) Temperature :  $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c) Pressure : 860-1060mbar



