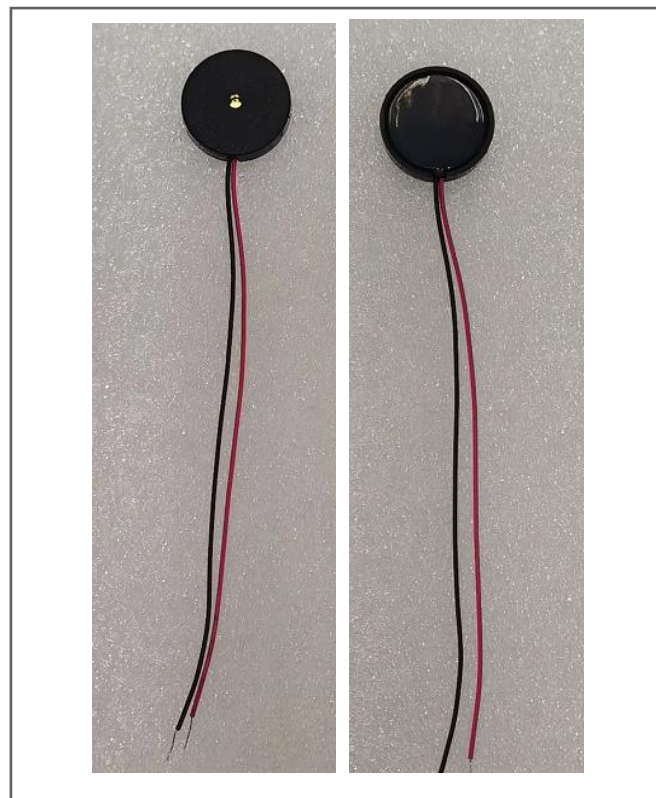


## Features

- Electroacoustic parts
- Used to sound warning sounds
- Prompt sound or feedback sound
- Used in various electronic products

## RS PRO Piezo Buzzer Components

RS Stock No.: 771-6913



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

## Product Description

Functions used for include:

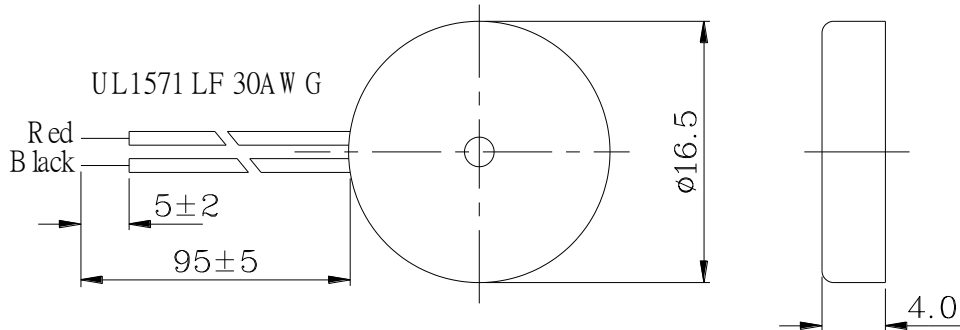
- Used to sound warning sounds
- Prompt sound or feedback sound
- Used in various electronic products

This specification applies piezo audio transducer, 771-6913

## Specification

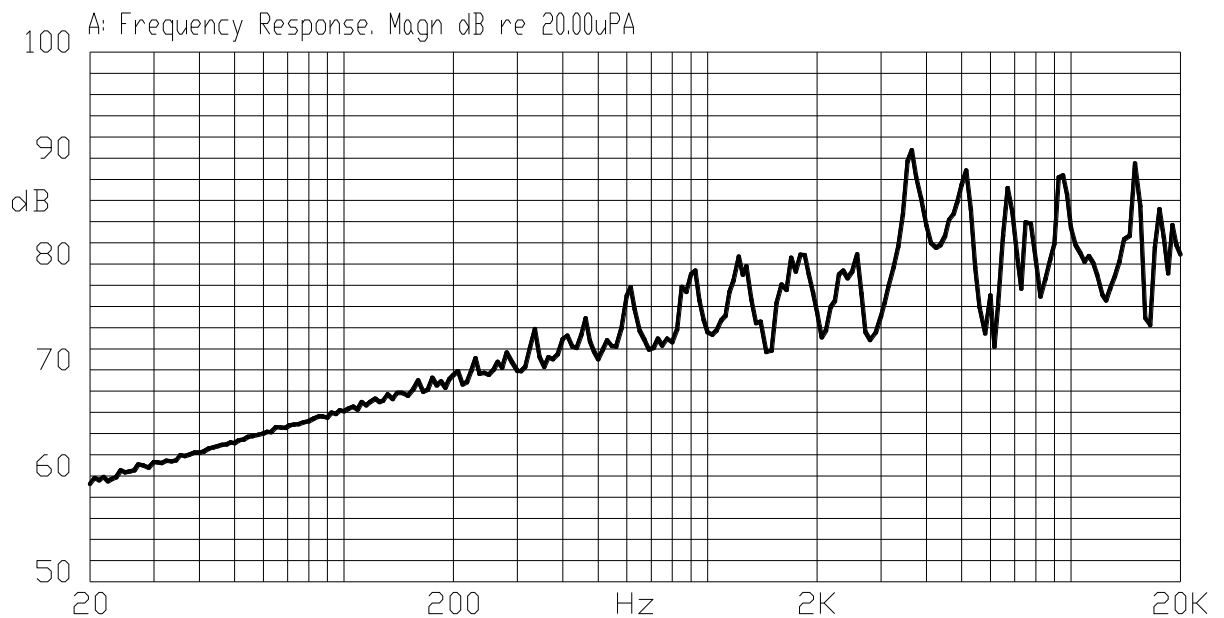
No.	Item	Unit	Specification	Condition
1	Operating Volt. 操作電壓	Vp-p	MAX 30	
2	<b>Current consumption</b>	mA	MAX 9	at 10Vp-p,square wave,5.0KHz.
3	Sound pressure level	dB	MIN 80	at 10cm/10Vp-p, square wave,5.0KHz.
4	Electrostatic capacity	pF	11,000 ± 30%	at 1KHz/1V
5	Operating temp.	°C	-30 ~ +85	
6	Storage temp.	°C	-40 ~ +95	
7	Dimension	mm	φ16.5 x H4.0	See appearance drawing
8	Weight (MAX)	gram	1.0	
9	Material		ABS UL-94 1/16" HB HIGH HEAT (BLACK)	
10	Terminal		Wire type	See appearance drawing
11	Environmental Protection Regulation		RoHS	

## Appearance Drawing



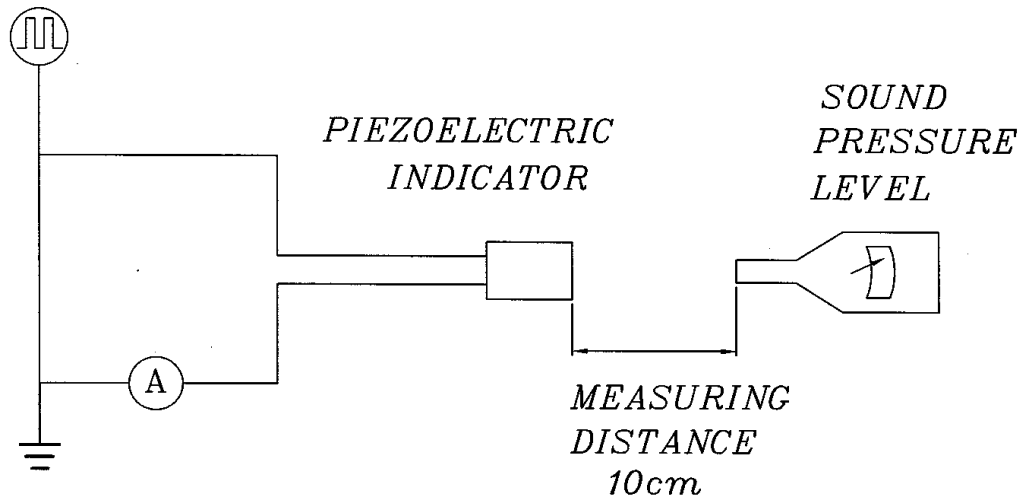
Tol : ± 0.5  
Unit: mm

## Typical Frequency Response Curve



## Measuring Method

S.P.L. Measuring Circuit  
 Input Signal: 10Vp-p, 5.0kHz, Square Wave



Mic : RION S.P.L meter UC30 or equivalent  
 S.G : Hewlett Packard 33120A Function Generator or equivalent

## Mechanical Characteristics

No	Item	Test Condition	Evaluation standard
1	Solderability (Connector excepted)	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm 5^{\circ}\text{C}$ for $3\pm 0.5$ seconds.	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	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 per-pendicular directions for 2 hours.	The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in $\pm 10\text{dB}$ compared with initial one.
4	Drop 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).	

## Environment Test

No.	Item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +95°C for 240 hours	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.
2	Low temp. test	After being placed in a chamber at -40°C for 240 hours	
3	Humidity test	After being placed in a chamber at +40°C and 90±5% relative humidity for 240 hours	
4	Temp. cycle test	<p>The part shall be subjected to 5 cycles. One cycle shall be consist of:</p> <p>The diagram shows a temperature profile over 3 hours. It starts at -40°C, ramps up to +25°C in 0.5 hours, dwells at +25°C for 0.25 hours, ramps up to +95°C in 0.5 hours, dwells at +95°C for 0.5 hours, ramps down to +25°C in 0.5 hours, and dwells at +25°C for 0.25 hours. This entire sequence is repeated 5 times.</p>	

## Reliability Test

No.	Item	Test condition	Evaluation
1	Operating life test	<p>1. Continuous life test</p> <p>48 hours continuous operation at +70°C with rated voltage applied.</p> <p>2. Intermittent life test</p> <p>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</p>	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