

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.: 771-6935



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.

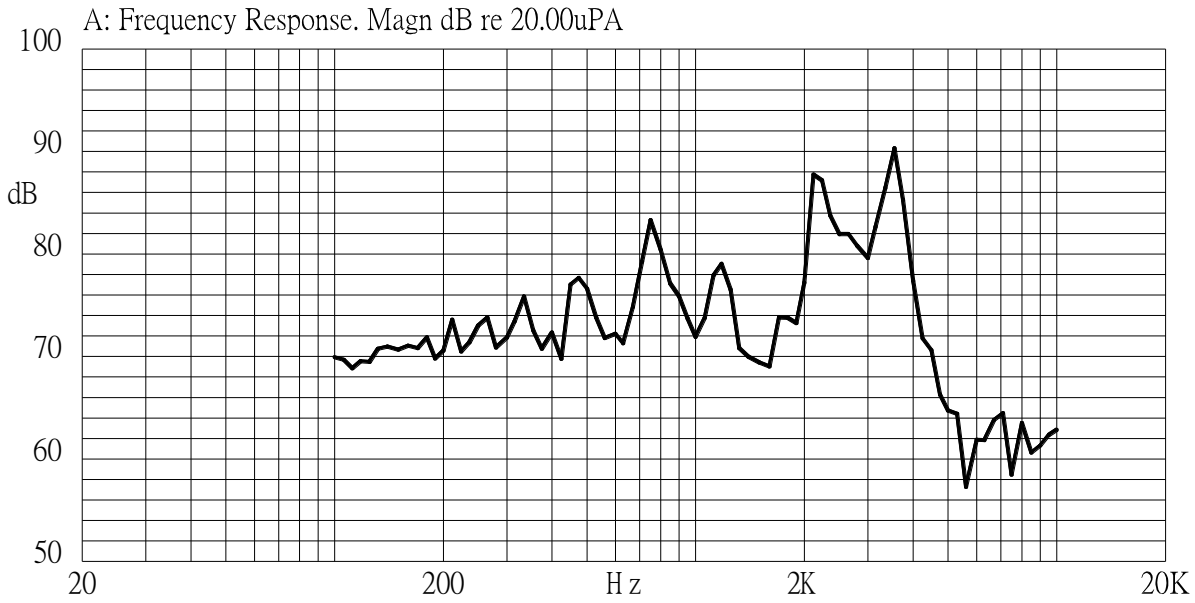
SCOPE

This specification applies magnetic buzzer, **771-6935**

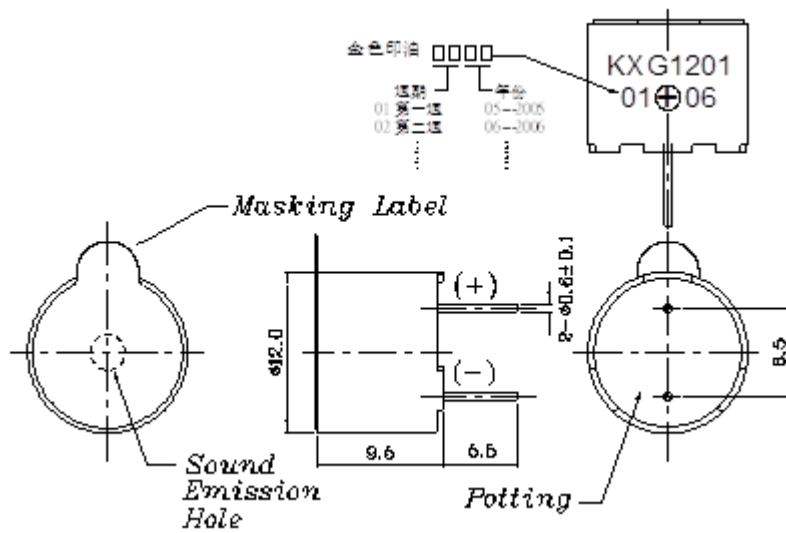
SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	1.5	
2	Operating Volt.	Vo-p	1.0~3.0	
3	Mean Current	mA	Max. 40	Applying rated voltage, 2400Hz square wave, 1/2duty
4	Coil Resistance	Ω	16.0 ± 2.4	
5	Sound Output	dBA	Min.85 (Typical 88)	Distance at 10cm(A-weight free air). Applying rated voltage 2400Hz, square wave, 1/2duty
6	Rated Frequency	Hz	2400	
7	Operating Temp.	$^{\circ}\text{C}$	-30 ~ +70	
8	Storage Temp.	$^{\circ}\text{C}$	-40 ~ +85	
9	Dimension	mm	$\phi 12.0 \times H9.5$	See attached drawing.
10	Weight	gram	1.60	
11	Material		PBT (Black)	
12	Terminal		Pin type (Plating Au)	See attached drawing.
13	Environmental Protection Regulation		RoHS	

TYPICAL FREQUENCY RESPONSE CURVE

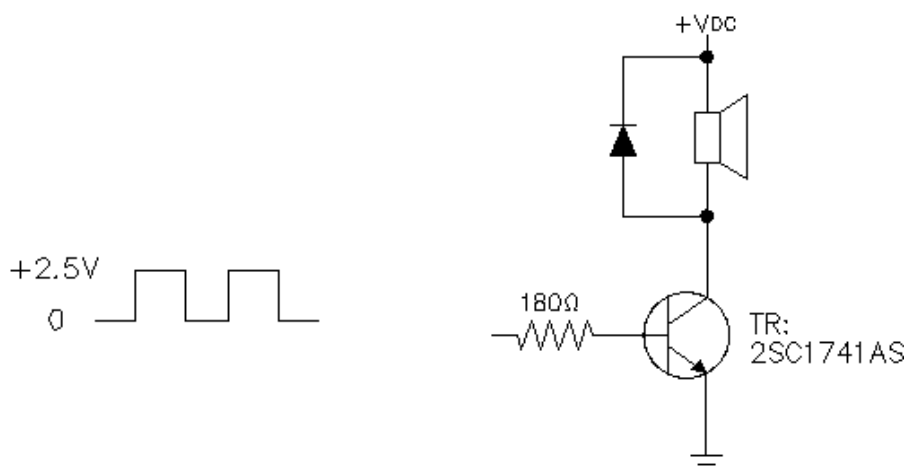


APPEARANCE DRAWING



Tol: ± 0.5
Unit: mm

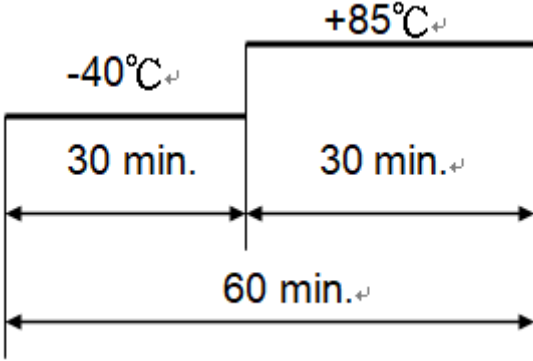
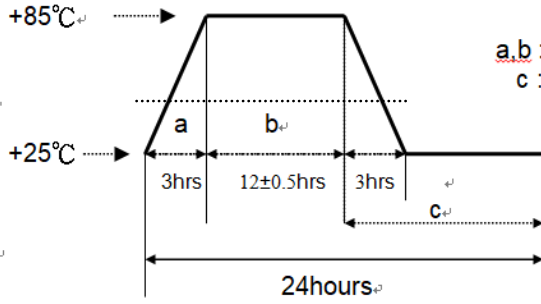
MEASUREMENT METHOD



MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5°C for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +260±5°C for 3±1 seconds.	No interference in operation
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N(1.0kg) is applied to each terminal in axial direction.	No damage and cutting off
4	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.	After the test the part shall meet specifications without any damage in appearance and the SPL should be in ±10dBA compared with initial one.
5	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 +85°C for 96 hours.	
2	Low temp. test	After being placed in a chamber at -40°C for 96 hours.	
3	Thermal Shock	<p>The part shall be subjected to 10 cycles. One cycle shall consist of;</p> 	<p>After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25°C.</p>
4	Temp./ Humidity Cycle	<p>The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of;</p>  <p>a, b : 90~98%RH c : 80~98%RH</p>	<p>the SPL should be in ±10dBA compared with initial one.</p>

RELIABILITY TEST

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

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