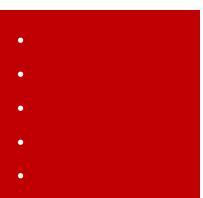


FEATURES



RS PRO Piezo Buzzer Components

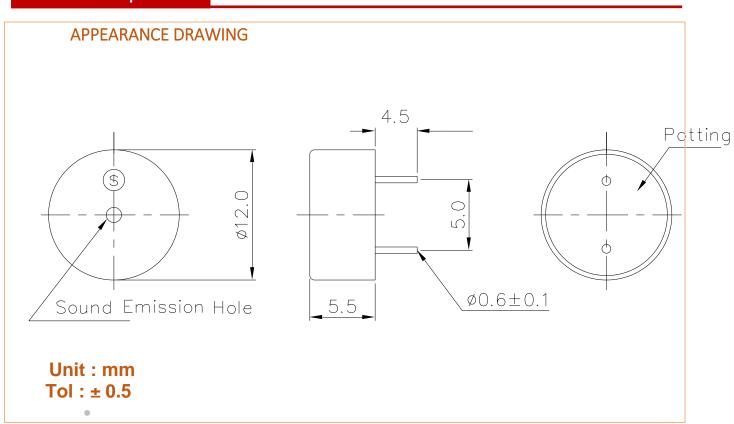
RS Stock No.: 7716910



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



Product Description



General Specifications

SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Operating Volt.	Vp-p	2~20	
2	Current consumptio	mA	MAX 7	At 9Vp-p,square wave,4.0KHz.
3	Sound pressure level	dB	MIN 85	at 10 cm/9Vp-p,square wave,4.0KHz.

Piezo Buzzer Components

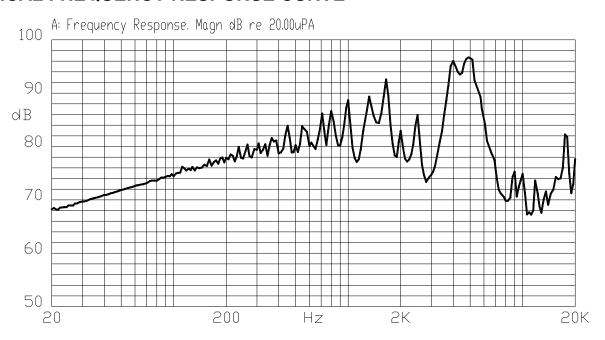


4	Electrostatic capacity	pF	12,000±30%	at 120Hz/1V
5	Operating temp.	°C	-40 ~ +85	
6	Storage temp.	°C	-40 ~ +85	
7	Dimension	mm	Ф12.0 x H 5.5	See appearance drawing
8	Weight (MAX)	gram	1.5	
9	Material		PBT (BLACK)	
10	Terminal		Pin type (/Plating Sn)	See appearance drawing
11	Environmental Protection Regulation		RoHS	
12	Storage life	month	6	6 months preservation at room temp.(25±3°ℂ), Humidity40%



Electrical Specifications

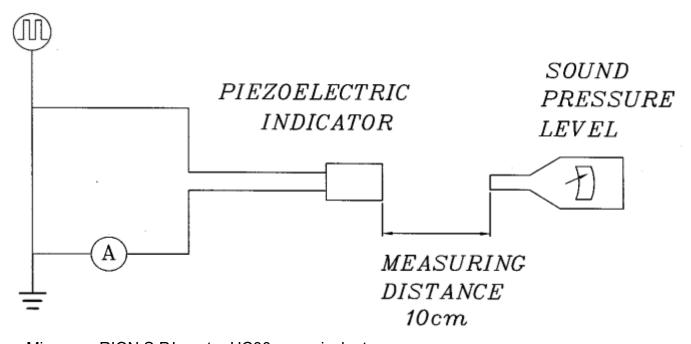
TYPICAL FREQUENCY RESPONSE CURVE



MEASURING METHOD

S.P.L. Measuring Circuit

Input Signal: 9Vp-p,4.0kHz, Square Wave



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

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



Mechanical Specifications

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 soilder bath of +300±5°C for 3± 0.5 seconds or +260±5°C for 10±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.	I he value of oscillation frequency/ current consumption should be in 10% compared with initial ones .The SPL should be in	
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).		

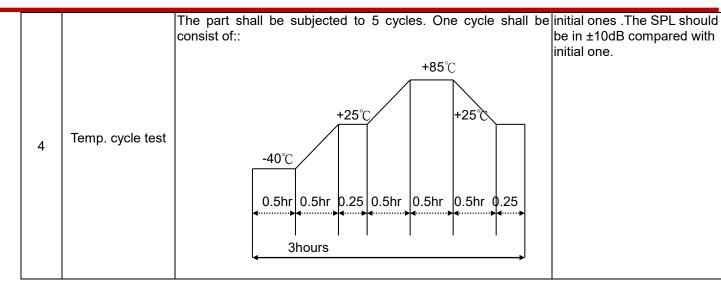
Operation Environment Specifications

ENVIRONMENT TEST

N	No	Item	Test Condition	Evaluation standard
	1	High temp. test		Being placed for 4 hours at +25℃, buzzer shall be
	2	Low temp. test	_ ·	measured. The value of oscillation frequency/
	3	Lumidity toot		current consumption should be in ±10% compared with

Piezo Buzzer Components





RELIABILITY TEST

No.	Item	Test condition	Evaluation standard
1	Operating 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 : $+5 \sim +35^{\circ}$ C b) Humidity : 45-85% c) Pressure : 860-1060mpa

Judgement Test Condition:a) Temperature : $+25 \pm 2^{\circ}$ C b) Humidity : 60-70% c)Pressure : 860-1060mpa.