Description: magnetic buzzer

Date: 1/26/2006

Unit: mm Page No: 1 of 5

# SCOPE

This specification applies to magnetic buzzer, CSQ-601BP

# **SPECIFICATION**

No.	Item	Unit	Specification	Condition
1	Rated Voltage	Vo-p	1.5	Vo-p
2	Operating Volt.	Vo-p	1.0~2.0	
3	Mean Current	mA	Max. 35	Applying rated voltage,2048Hz square wave, 1/2duty
4	Coil Resistance	Ω	16.0 ± 2.4	
5	Sound Output	dBA	Min. 70 (Typical 76)	Distance at 10cm(A-weight free air). Applying rated voltage 2048Hz,square wave, 1/2duty
6	Rated Frequency	Hz	2048	
7	Operating Temp.	°C	-20 ~+60	
8	Storage Temp.	,c	-30 ~+70	
9	Dimension	mm	φ12.0 x H5.5	See attached drawing.
10	Weight	gram	1.2	
11	Material		PPO	
12	Terminal		Pin type (Plating Au)	See attached drawing.
13	Environmental Protection Regulation		RoHS	

All information contained herein applies only to the above listed part number. Other versions of this part number with electrical or mechanical variations are available. Contact CUI Inc. for futher assistance.

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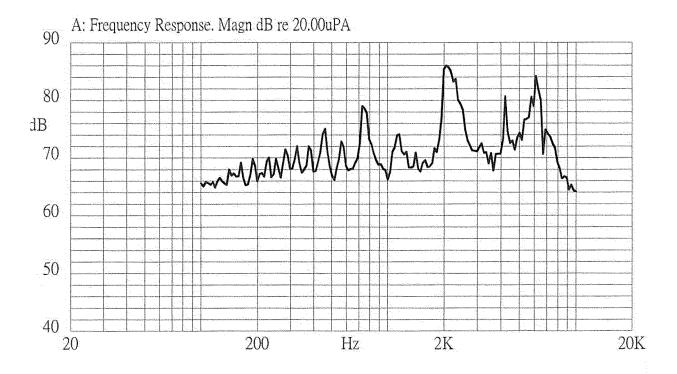
Description: magnetic buzzer

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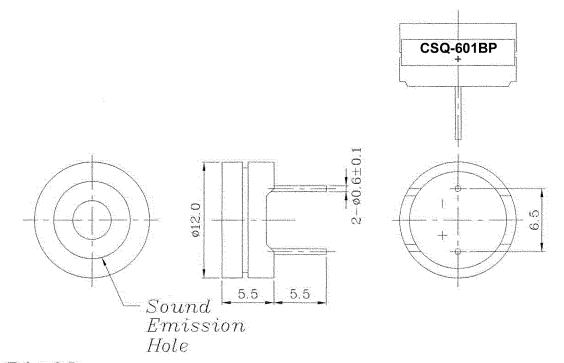
Unit: mm

Page No: 2 of 5

#### TYPICAL FREQUENCY RESPONSE CURVE



# APPEARANCE DRAWING



Tol: ± 0.5 Unit: mm

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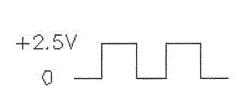
Description: magnetic buzzer

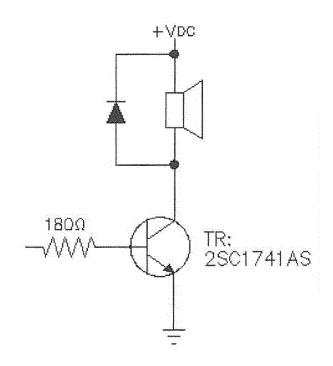
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Page No: 3 of 5

#### **MEASUREMENT METHOD**





# MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard	
	Solderability <sup>1</sup>	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5°€ 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 with-out 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).		

Notes: 1. Not recommended for wave soldering

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Unit: mm Page No: 4 of 5

# **ENVIRONMENT TEST**

No.	ltem	Test condition	<b>Evaluation standard</b>
1	High temp, test	After being placed in a chamber at +70°℃ for 96 hours.	After the test the part shall meet specifications with-out any degradation in appearance and performance except SPL. after 4 hours at +25°C. the SPL should be in ±10dBA compared with
2	Low temp. test	After being placed in a chamber at -30°C for 96 hours.	
3	Thermal Shock	The part shall be subjected to 10 cycles. One cycle shall consist of;  +70°C  -30°C  30 min.  60 min.	
4	Temp./ Humidity Cycle	The part shall be subjected to 10 cycles. One cycle shall be 24 hours and consist of;  +70°C  a,b:90~98%RH c:80~98%RH c:80~98%RH	initial one.

# **RELIABILITY TEST**

No. Item	Test condition	Evaluation standard
Operat 1 life te		performance except SPL. after 4 hours at +25°C the SPL should be in ±10dBA compared with

#### 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

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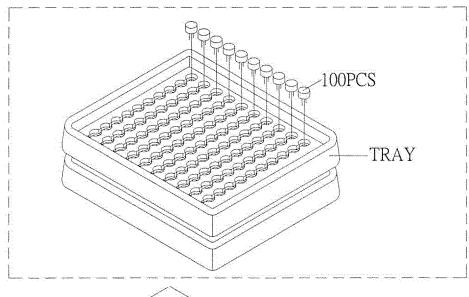
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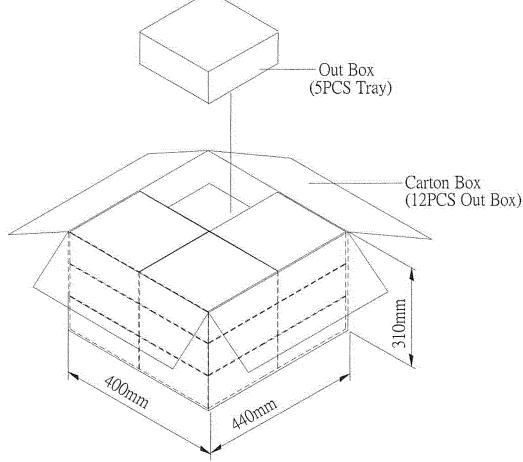
Date: 1/26/2006

Unit: mm

Page No: 5 of 5

#### **PACKING STANDARD**





Tray	184mmx184mmx23mm	1x100PCS=100PCS	-
Out Box	200mmx190mmx100mm	5LAYERx100PCS=500PCS	-
Carton Box	440mmx400mmx310mm	500PCSx12=6,000PCS	-

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