SPECIFICATION

SHEET FOR APPROVAL

(Revision: 2008A Update: 00)

CUSTOMER:

PRODUCT: ELECTROMAGNETIC BUZZER

MODEL NUMBER: HCM1012

CUSTOMER PART NUMBER: 9.6×5 NORYL

ELECTROMAGNETIC BUZZER

HCM1012

FEATURES:

Case: NORYL

Pin: Pins' storage time ≤ 5 months $\leq 75 \%$ R.H Electroplating:

tin



This product conforms to the standard of ROHS

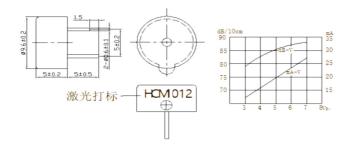
> SPECIFICATIONS

ТҮРЕ	UNIT	HCM1012
◆Min. Sound Output at 10cm	dB	80
Rated Voltage	$ m V_{0-p}$	12
Operating Voltage	$ m V_{0-p}$	8~15
♦ Resonant Frequency	Hz	2600±300
♦ Max. Current Consumption	mA	30
Operating Temperature	\mathbb{C}	-20∼+70
Storage Temperature	${\mathbb C}$	-30~+80
Weight	g	1

- ◆Value applying at (rated voltage, 2730 Hz, 1/2 duty square wave)
- \diamondsuit Value applying at (2730 Hz, sine wave, measuring current 60 μ A)

DIMENSIONS : (Unit: mm)

FREQUENCY RESPONSE:



ELECTROMAGNETIC BUZZER

► 1. SCOPE

THESE SPECIFICATIONS APPLIED TO THE ABOVE MENTIONED ELECTROMAGNETIC TRANSDUCER.

► 2.MECHANICAL CHARACTERISTICS

- 2-1 EXTERNAL DIMENSION
 - THE EXTERNAL DIMENSION, INDICATION ARE AS SHOWN IN DRAWING SHEETS.
- 2-2 APPEARANCES

THE FINISHING SHALL NOT BE ACCOMPANIED BY REMARKABLE RUST, DISTORTION, CREAK, ETC.

2-3 TENSILE STRENGTH OF TERMINAL PINS

EACH TERMINAL PIN SHALL BE NO ABNORMALITY WHEN THE EQUIPMENT IS PROPERLY FIXED AND 1kg OF LOAD IS GIVEN FOR 30 ± 5 SECONDS IN AXIS DIRECTION OF TERMINAL.

> 3.ELECTRICAL CHARACTERISTICS(AT 25°C)

3-1	OPERATING VOLTAGE	$ m V_{0-p}$	8~15
3-2	RATED VOLTAGE	$ m V_{0-p}$	12
3-3	RESONANT FREQUENCY	Hz	2600±300
3-4	RATED CURRENT	mA	30
3-5	SOUND PRESSURE LEVEL	dB	80
3-8	OPERATING TEMPERATURE	°C	-20 +70
3-9	STORAGE TEMPERATURE	$^{\circ}$	-30 +80

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▶ 4. RELIABILITY TEST

NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
4-1	HUMIDITY	55±5℃,95±3%RH 96HRS	
4-2	HIGH TEMP.	+80±2℃,96HRS	
4-3	LOW TEMP	-30±2℃,96HRS	
4-4	TEMPERATURE CYCLING	-30±2°C 30 MINUTES ROOM TEMP. 10 MINUTES +80±2°C 30 MINUTES ROOM TEMP. 10 MINUTES 25 CIRCLES	SOUND PRESSURE LEVEL INITIAL VALUE±10%
4-5	DROPTEST	HEIGHT FROM 70CM HEIGHT ONTO HARD WOOD OR STEEL SURFACE Number OF DROPS 6 POSITIONS X, Y, Z	

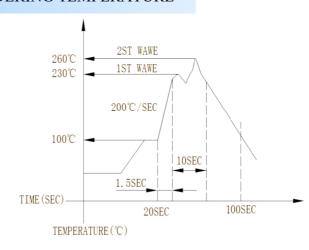
NOTE:

1.TEST ITEM 4-4 AND 4-5 SHALL BE CONDUCTED WITH CIRCUIT STATE.

2.TEST SPECIMENS SHALL BE KEPT FOR 4 HRS,25°C BEFORE MEASUREMENT.

▶ 5. THE CHART OF WAVE SOLDERING TEMPERATURE

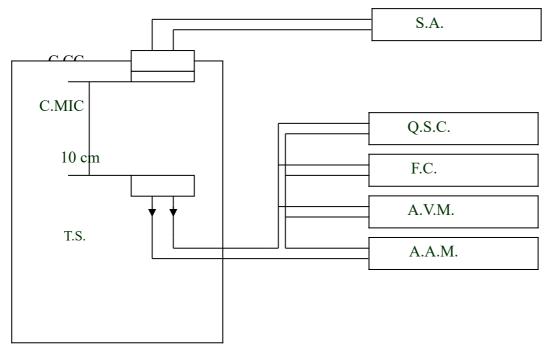
This Chart only shows the soldering temperature of the pins; but the part of the shell could not overrun 80°C



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> 5. ELECTRICAL CHARACTERISTICS TEST METHOD



S.A. : SPECTRUM ANALYAER

F. C. : FREQUENCY COUNTER

A.A.M.: AC AMPERE METER S.R.: SOUNDPROOF ROOM A.V.M.: AC VOLT. METER C.MIC: CONDENSER MIC

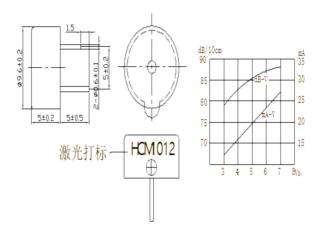
T.S.: TEST SAMPLE

Q.S.C.: OSCILLATOR

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► 6. DIMENSION (UNIT:mm)



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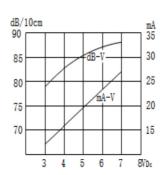
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> 7. FREQUENCY RESPONSE (typical curve)

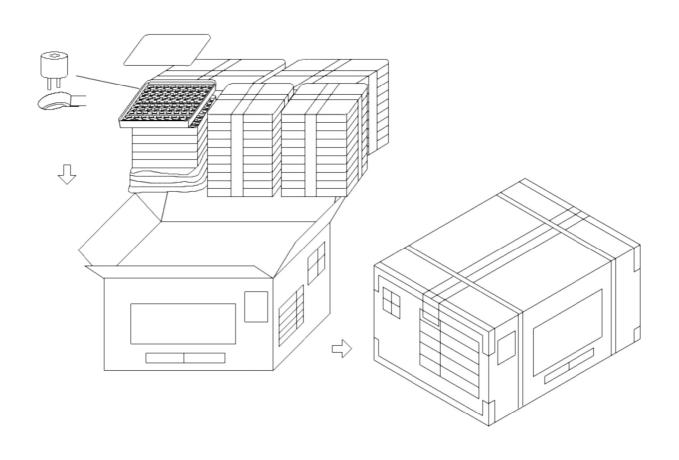


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> 8.PACKING FORMAT (UNIT:cm)



ELECTROMAGNETIC BUZZER QTY: 5000PCS VOLUME: 50×41.5×27CM

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