

ILOSAM ELECTRONICS CO., LTD.

HC12G-1PA

FEATURE:

Case:ABS, Black

Pin:Tin-plated copper

SPECIFICATIONS:

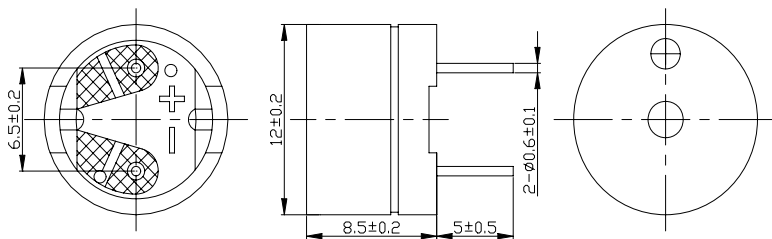
TYPE	UNIT	HC12G-1PA
◆Min. Sound Output at 10cm	dB	85
Rated Voltage	V _{0-p}	1.5
Operating Voltage	V _{0-p}	1~2
Resonant Frequency	Hz	2048
◆Max. Current Consumption	mA	30
Coil Resistance	Ω	16±4
◇Coil Impedance	Ω	40
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-30~+80
Weight	g	2

◆ Value applying at (rated voltage, 2048 Hz, 1/2 duty square wave)

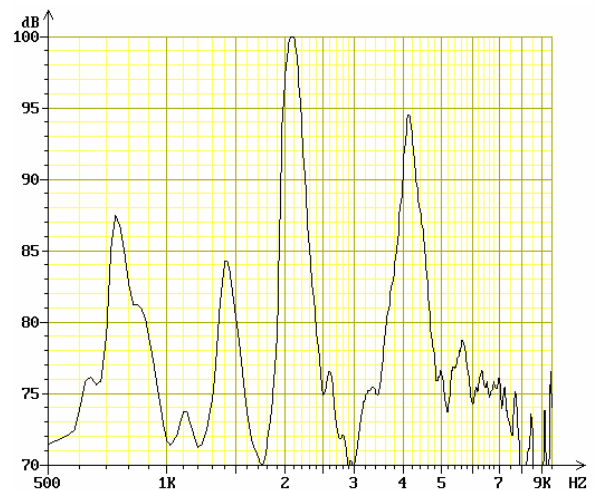
◇ Value applying at (2048 Hz, sine wave, measuring current 60 μ A)

DIMENSIONS :

(Unit: mm)



FREQUENCY RESPONSE:



Address: Chung-Ang Circulation complex(GA-Dong/3428) #1258 Kurobon-Dong Kuro-Gu SEOUL
KOREA

Tel: 82-2-26150158 Fax: 82-2-26151043

E-mail: izicom@ilosam.co.kr Web site: www.ilosam.co.kr

SPECIFICATION SHEET

CUSTOMER:

PRODUCT: ELECTROMAGNETIC TRANSDUCER

MODEL NUMBER: HC12G-1PA

ILOSAM

ELECTRONICS CO., LTD.



TEL: +86-2-26150158 POST CODE : 152-721

FAX: +86-2-26151043

ADD: Chung-Ang Circulation complex(GA-Dong/3428) #1258 Kurobon-Dong Kuro-Gu
SEOUL KOREA

E-mail: izicom@ilosam.co.kr **Http:** [//www.ilosam.co.kr](http://www.ilosam.co.kr)

WE HERE APPLY FOR AUTHORIZATION TO SUPPLY THE ABOVE MENTIONED ON THE BASIS OF THE FOLLOWING SPECIFICATIONS.

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 APPEARANCE

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

2-3 TENSILE STRENGTH OF TERMINAL PIN

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	: 1-2V
3-2 RATED VOLTAGE	: 1.5V
3-3 RESONANT FREQUENCY	: 2048 Hz
3-4 RATED CURRENT	: 30mA MAX.
3-5 SOUND PRESSURE LEVEL	: 85dB MIN.
3-6 COIL RESISTANCE	: 16 ± 4 OHM
3-7 COIL IMPEDANCE	: 40 OHM
3-8 OPERATING TEMPERATURE	: -20°C- +70°C
3-9 STORAGE TEMPERATURE	: -30°C- +80°C

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4. RELIABILITY TEST

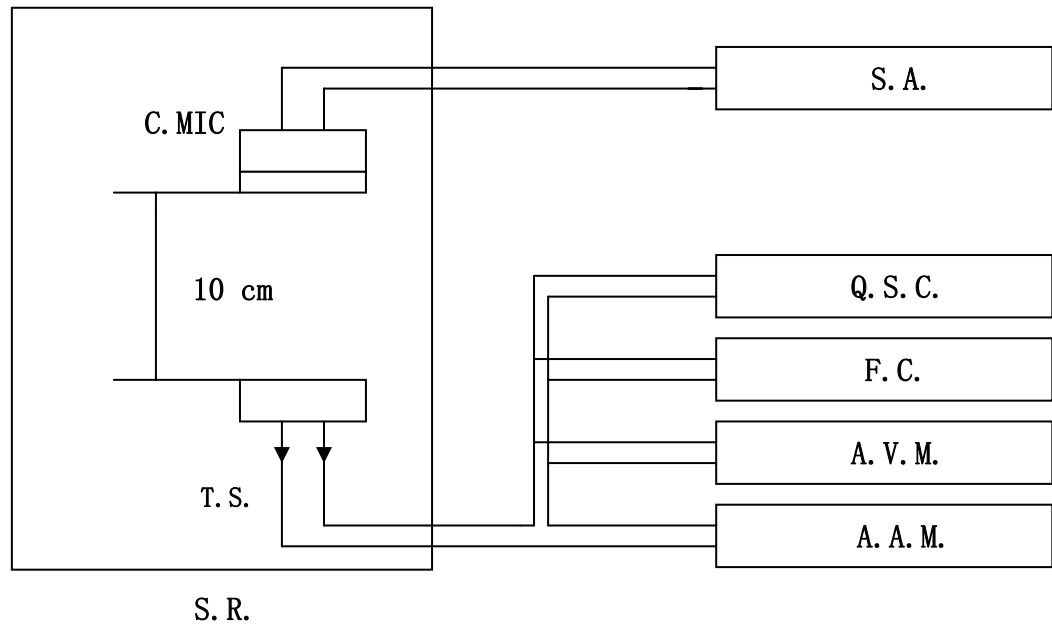
NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
4-1	HUMIDITY	$55 \pm 5^{\circ}\text{C}$, $95 \pm 3\%\text{RH}$ 96HRS	SOUND PRESSURE LEVEL INITIAL VALUE $\pm 10\%$
4-2	HIGH TEMP.	$+80 \pm 2^{\circ}\text{C}$, 96HRS	
4-3	LOW TEMP.	$-30 \pm 2^{\circ}\text{C}$, 96HRS	
4-4	TEMPERATURE CYCLING	$-30 \pm 2^{\circ}\text{C}$ 30 MINUTES	
		ROOM TEMP. 10 MINUTES	
		$+80 \pm 2^{\circ}\text{C}$ 30 MINUTES	
		ROOM TEMP. 10 MINUTES	
		5 CYCLES	
4-5	DROP TEST	3 TIMES FROM HEIGHT OF 50CM ON CONCRETE FLOOR	

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.

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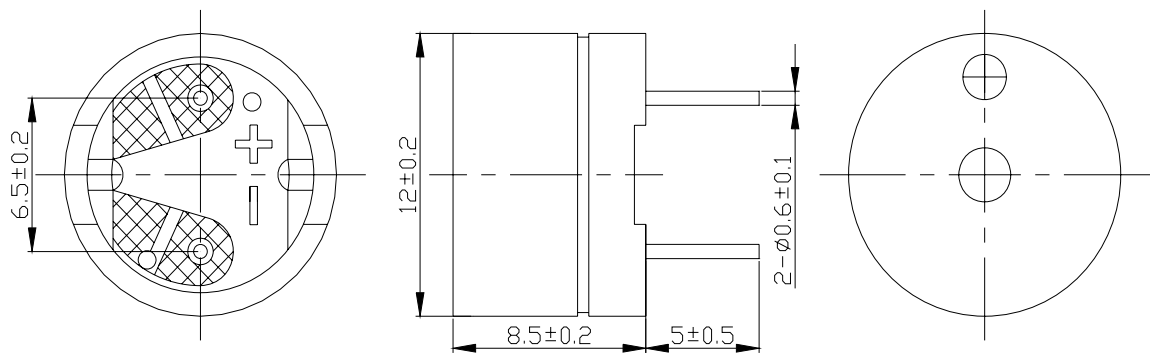
5. ELECTRICAL CHARACTERISTICS TEST METHOD



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

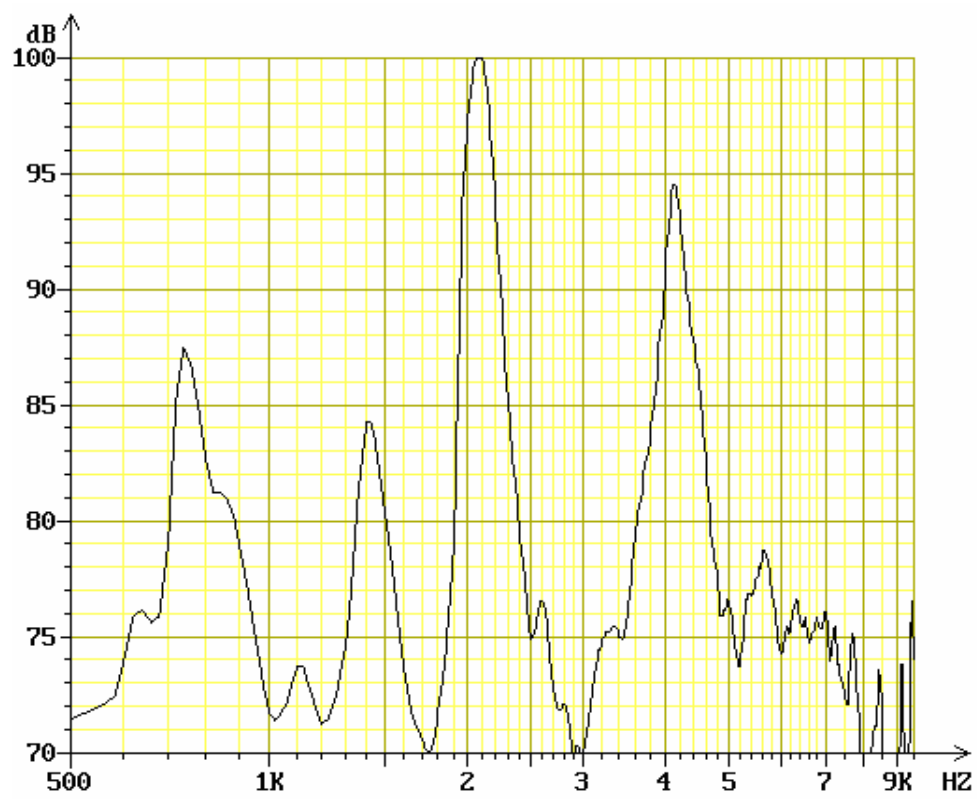
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6. DIMENSION (UNIT:mm)



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7. FREQUENCY RESPONSE (typical curve of type HC12G-1PA)



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