

# SPECIFICATION FOR APPROVAL

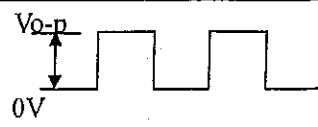
Product	MAGNETIC BUZZER
Part No.	SEM-1206S (RoHS)
Customer Approval	

Approved By	Checked By	Made By
ERIC WANG JUN-21-2007	DAVID LIU JUN-21-2007	JOHN HSU JUN-21-2007

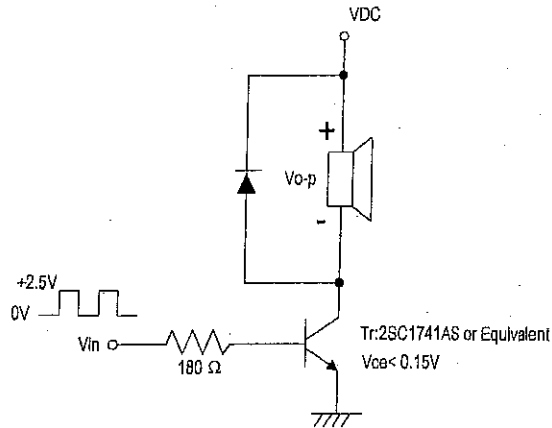


**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)

**SEM-1206S (RoHS)**

Items		Units	Specifications			Conditions	
01	Rated Voltage	Vo-p	6.0				
02	Operating Voltage	Vo-p	3.0~8.0				
03	Mean Current	mA (Max)	50			Applying rated voltage, rated frequency Square wave, 1/2 duty subject to standard state.	
04	Direct Current Resistance	Ohm	45±6.0				
05	Sound Output	dBA (min)	85			Distance at 10cm, applying rated voltage, rated frequency square wave, 1/2 duty subject to standard state.	
06	Rated Frequency	Hz	2400± 200				
07	Operating Temp.	°C	-40 ~ +85				
08	Storage Temp.	°C	-50 ~ +95				
09	Dimension	mm	Φ	12.0	Height	9.5	See attached drawing.
10	Weight	Gram	2.0				
11	Terminal		Two Pins			See attached drawing.	

※Standard Drive Circuit:



※Standard Conditions:

Temperature 15 ~ 35°C

Humidity 25 ~ 80 %

Air pressure 860 ~ 1060 HPa.

If the result is doubtful, should retested with the conditions below: Temp. 20±2°C, Humidity 60 ~ 70 %, Air pressure 860 ~ 1060 HPa.

Air pressure 860 ~ 1060 HPa.

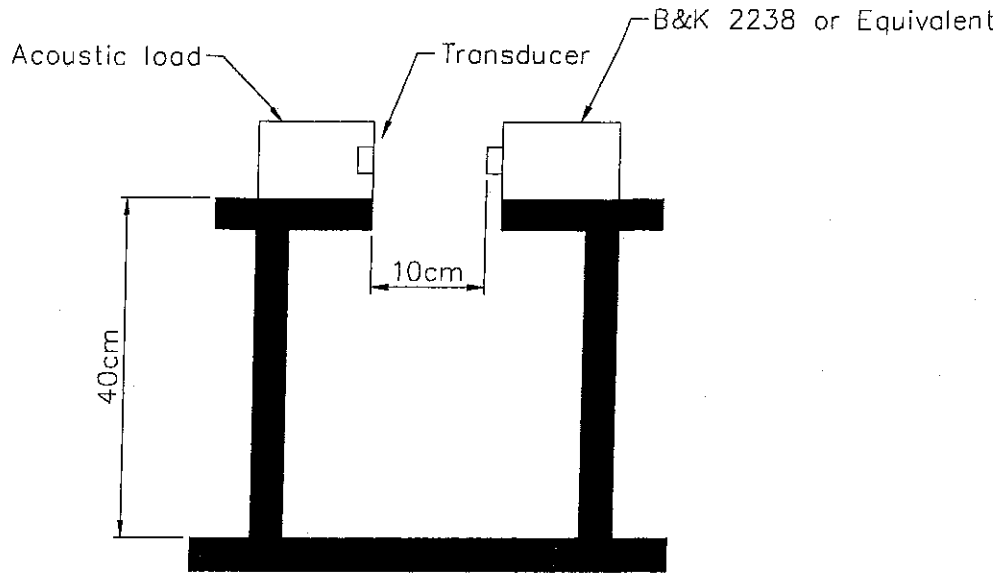
※Note: As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.



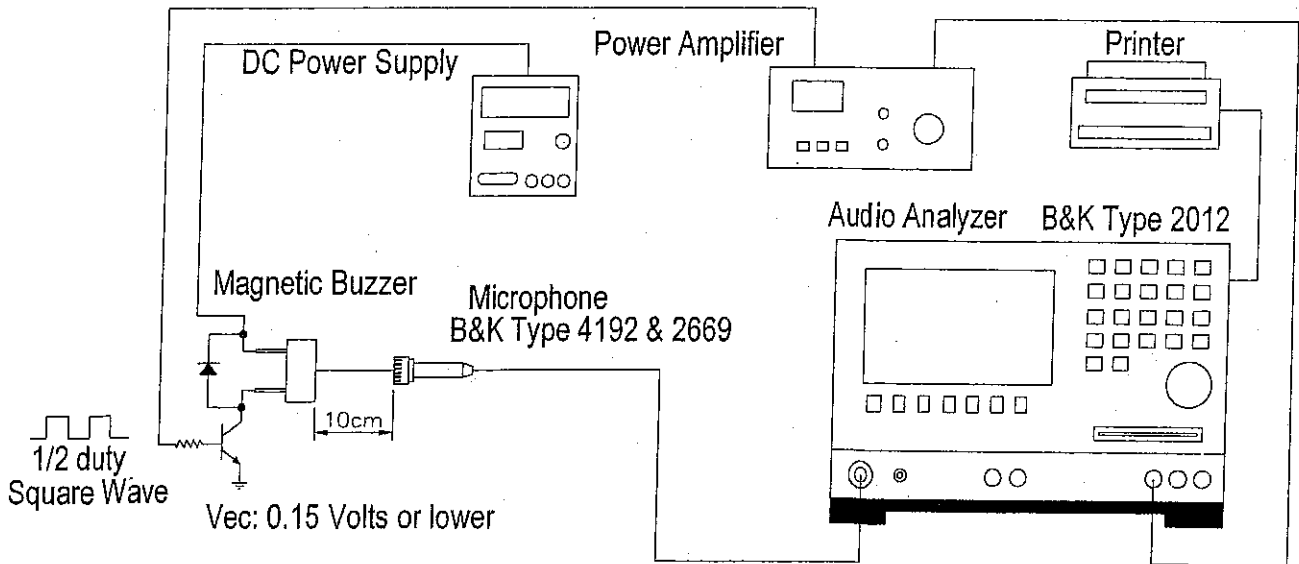
**SHOGYO INTERNATIONAL CORP.**  
 6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
 TEL: (516) 921-9111 • FAX: (516) 921-3777  
 www.shogyo.com

# STANDARD TEST FIXTURE

SEM-1206S (RoHS)



## Standard test condition of magnetic buzzer



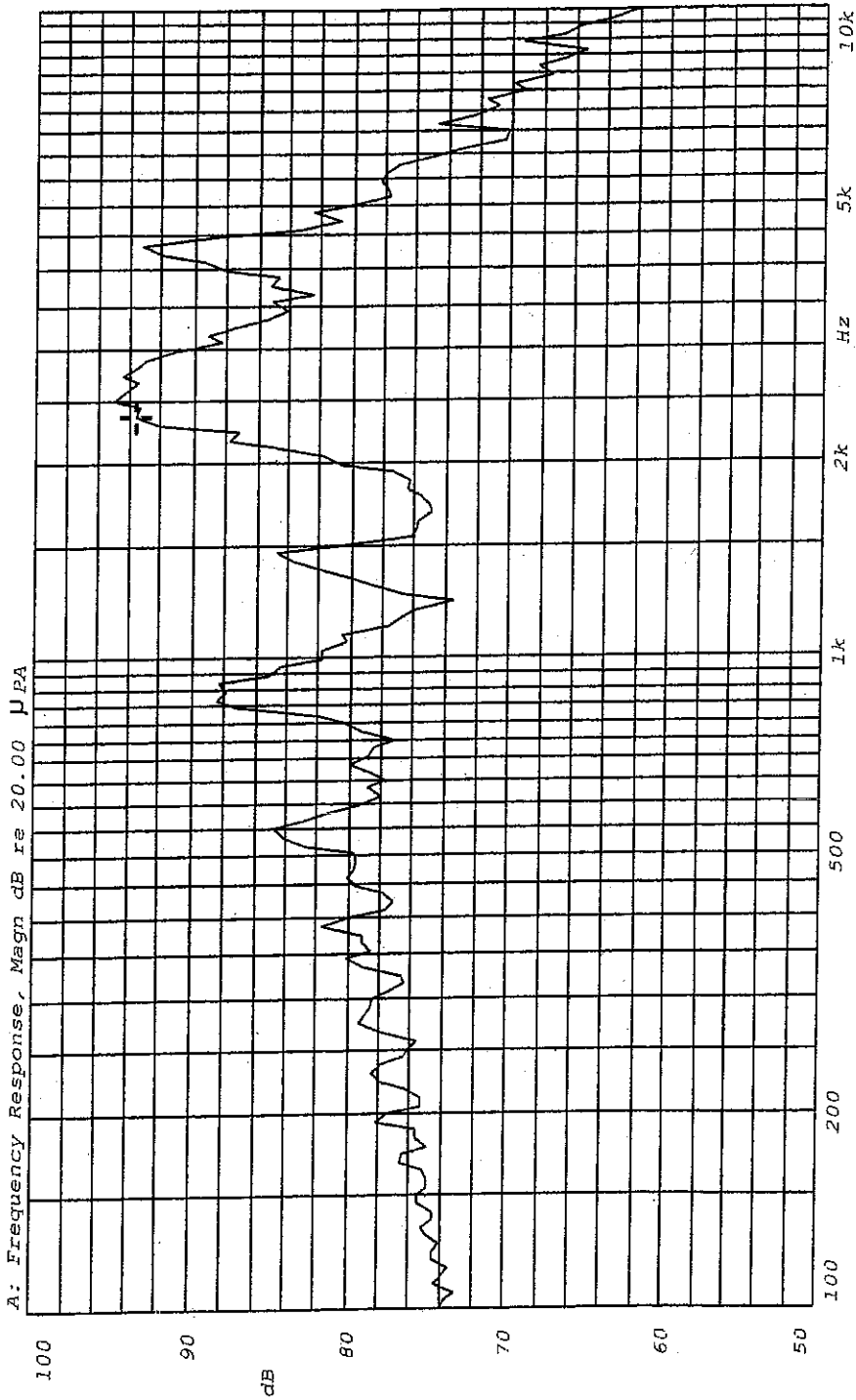
**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)

SEM-1206S (RoHS)

ZA: Live Curve SSR T. RMS

Y: 93.57dB

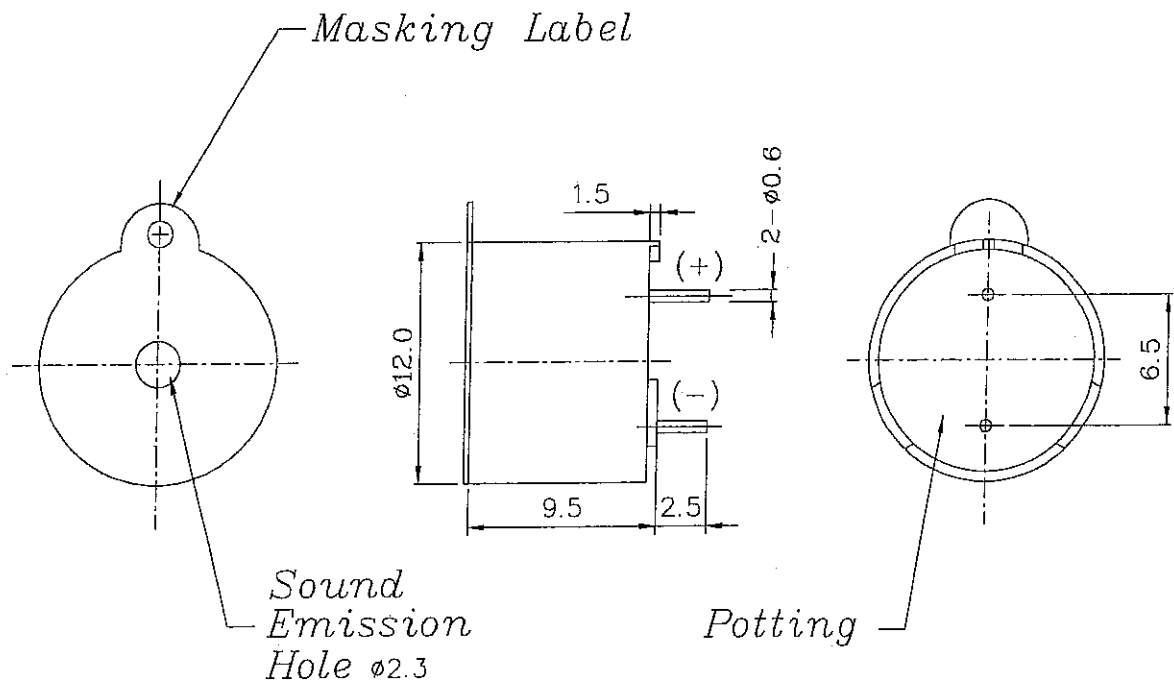
X: 2.3714kHz



Mode: SSR

# SHOGYO

**SHOGYO INTERNATIONAL CORP.**  
6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)



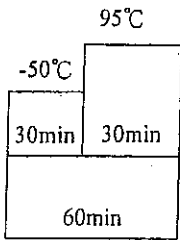
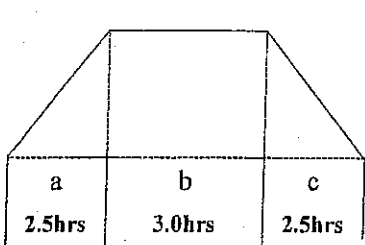
RoHS

TITLE: SOUND TRANSDUCER DIMENSIONS		DRAWN: <i>Doh</i>	10/04/2001	SCALE: 3/1	SHEET: 1 OF 1
PART NO. SEM-1206S	1 REV	DESIGNED: R&D		UNITS: mm	
DWG NO. DTT-1129		CHECKED:		TOLERANCE $\pm 0.5$	
		APPROVAL:		UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: PBT		ONE PLACE DECIMAL $\pm$ ***	
				TWO PLACE DECIMAL $\pm$ ***	
				THREE PLACE DECIMAL $\pm$ ***	



**SHOGYO INTERNATIONAL CORP.**  
 6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
 TEL: (516) 921-9111 • FAX: (516) 921-3777  
 www.shogyo.com

## RELIABILITY TEST

Item	Test conditions	Evaluation standard
01 High temp. Storage life	The part shall be capable of withstanding a storage Temperature of 95°C for 96 hours.	After the test the part shall meet specifications without Any degrance and performance except S.P.L. S.P.L shall be 77dB or more.
02 Low temp. Storage life	The part shall be capable of withstanding a storage Temperature of -50°C for 96 hours.	
03 Temp.cycle	<p>The part shall be subjected 10 cycles. One cycle shall consist of;</p> 	
04 Temp./Humidity cycle	<p>The part shall be subjected 10 cycles. One cycle shall be 8 hours and consist of;</p>  <p>a,b:90~98%RH c :80~98%RH</p>	



## SEM-1206S (RoHS)

Item	Test conditions	Evaluation standard	
05	<b>Vibration</b>	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time Of 6 hours.	
06	<b>Fixed drop</b>	The part shall be mounted on 100g jig(standard pc board) and dropped from a height of 152cm onto a concrete floor 5 times in each 6 planes. (a total of 30 times)	After the test the part shall meet specifications
07	<b>Free drop</b>	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).	without Any degraance and performance except S.P.L
08	<b>Operating life</b>	<ol style="list-style-type: none"> <li>1. Ordinary temperature The part shall be subjected to 1000 hours at room temperature (<math>25 \pm 10^{\circ}\text{C}</math>) with 6V 2400Hz applied.</li> <li>2. High temperature The part shall be subjected to 500 hours at <math>85^{\circ}\text{C}</math> with 6V, 2400Hz applied.</li> <li>3. Low temperature The part shall be subjected to 500 hours at <math>-40^{\circ}\text{C}</math> with 6V, 2400Hz applied.</li> </ol>	S.P.L shall be 77dB or more.



**SHOGYO INTERNATIONAL CORP.**  
 6851 JERICHO TURNPIKE, SYOSSET, N.Y. 11791  
 TEL: (516) 921-9111 • FAX: (516) 921-3777  
[www.shogyo.com](http://www.shogyo.com)