

GREEN ELECTRONICS CO., LTD.

GEC09B-5

FEATURES:

Case: Noryl, Black

Pin: Tin-plated copper

SPECIFICATIONS:

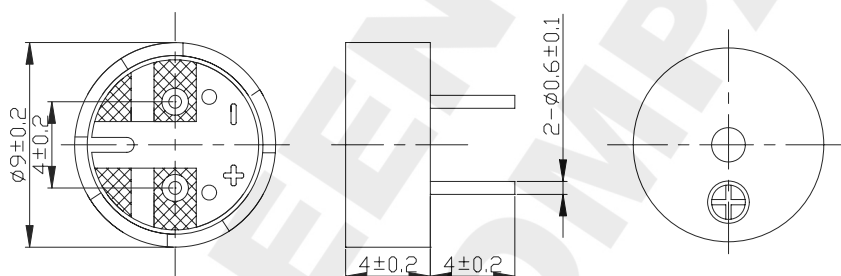
TYPE	UNIT	GEC09B-1
◆ Min. Sound Output at 10cm	dB	85
Rated Voltage	V _{0-p}	1.5
Operating Voltage	V _{0-p}	1~2
Resonant Frequency	Hz	2730
◆ Max. Current Consumption	mA	80
Coil Resistance	Ω	6±1
◇ Coil Impedance	Ω	15
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-30~+80
Weight	g	0.7

◆ Value applying at (rated voltage, 2730 Hz, 1/2 duty square wave)

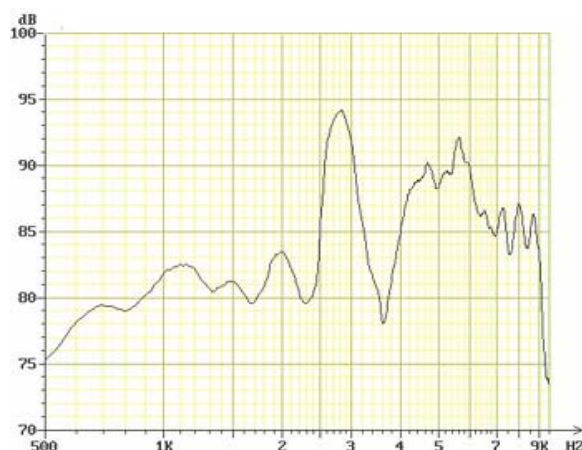
◇ Value applying at (2730 Hz, sine wave, measuring current 60μA)

DIMENSIONS :

(Unit: mm)



FREQUENCY RESPONSE:



Address: 3527.GA-DONG CHUNGGANG COMOLEX1258, GURO DONG
SEOUL, KOREA

Tel: 82.2.6679.8796

Fax: 82.2.6679.7662

Web site: WWW.GREENELEC.CO.KR

SPECIFICATION SHEET

CUSTOMER:

PRODUCT: ELECTROMAGNETIC TRANSDUCER

MODEL NUMBER: G09B-5

GREEN

ELECTRONICS CO., LTD.



TEL: +82.2.6679.8796

FAX: +82.2.6679.7662

ADD: 3527.GA-DONG CHUNGGANG COMOLEX1258,GURO DONG

SEOUL,KOREA ***Http://***WWW.GREENELEC.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 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	: 1-2V
3-2 RATED VOLTAGE	: 1.5V
3-3 RESONANT FREQUENCY	: 2730 Hz
3-4 RATED CURRENT	: 80mA MAX.
3-5 SOUND PRESSURE LEVEL	: 85dB MIN.
3-6 COIL RESISTANCE	: 6 ± 1 OHM
3-7 COIL IMPEDANCE	: 15 OHM
3-8 OPERATING TEMPERATURE	: -20°C- +70°C
3-9 STORAGE TEMPERATURE	: -30°C- +80°C

DATE: 2008. 1. 11	PRODUCT SPECIFICATION G09B-1 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 1/5		PRODUCER:

4. RELIABILITY TEST

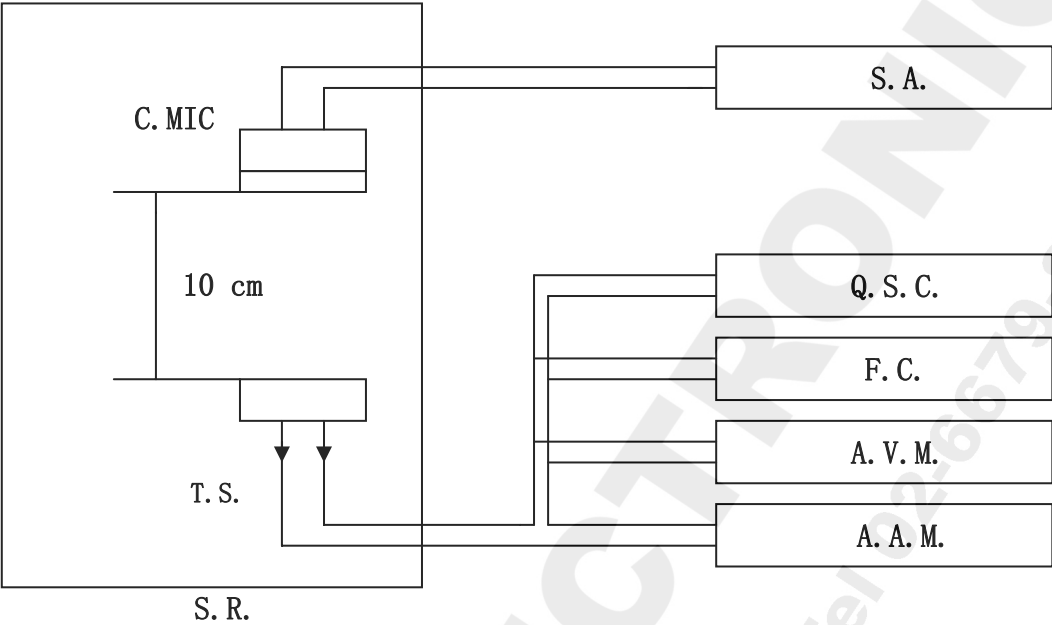
NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
4-1	HUMIDITY	$55 \pm 5^{\circ}\text{C}$, $95 \pm 3\%\text{RH}$ 96HRS	SOUND PRESSURE LEVEL INITIAL VALUE $\pm 10\%$
4-2	HIGH TEMP.	$+80 \pm 2^{\circ}\text{C}$, 96HRS	
4-3	LOW TEMP.	$-30 \pm 2^{\circ}\text{C}$, 96HRS	
4-4	TEMPERATURE CYCLING	$-30 \pm 2^{\circ}\text{C}$ 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.

DATE: 2008. 1. 11	PRODUCT SPECIFICATION G09B-1 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 2/5		PRODUCER:

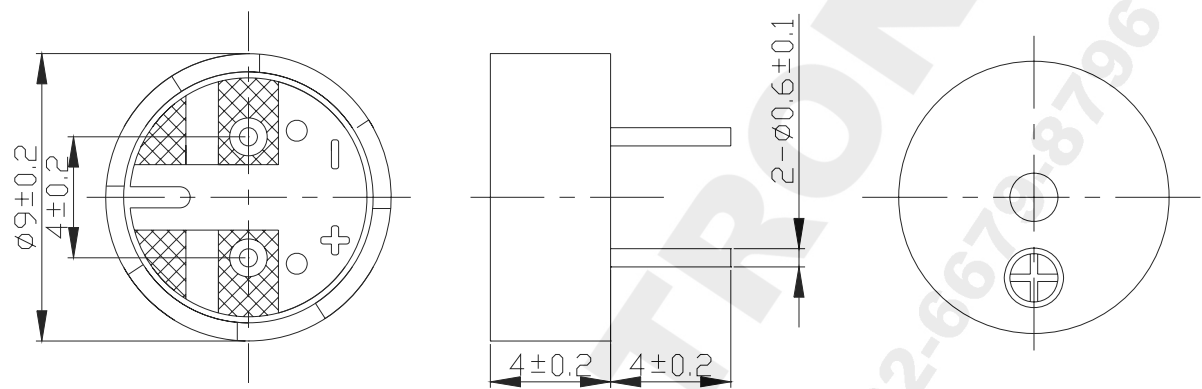
5. ELECTRICAL CHARACTERISTICS TEST METHOD



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

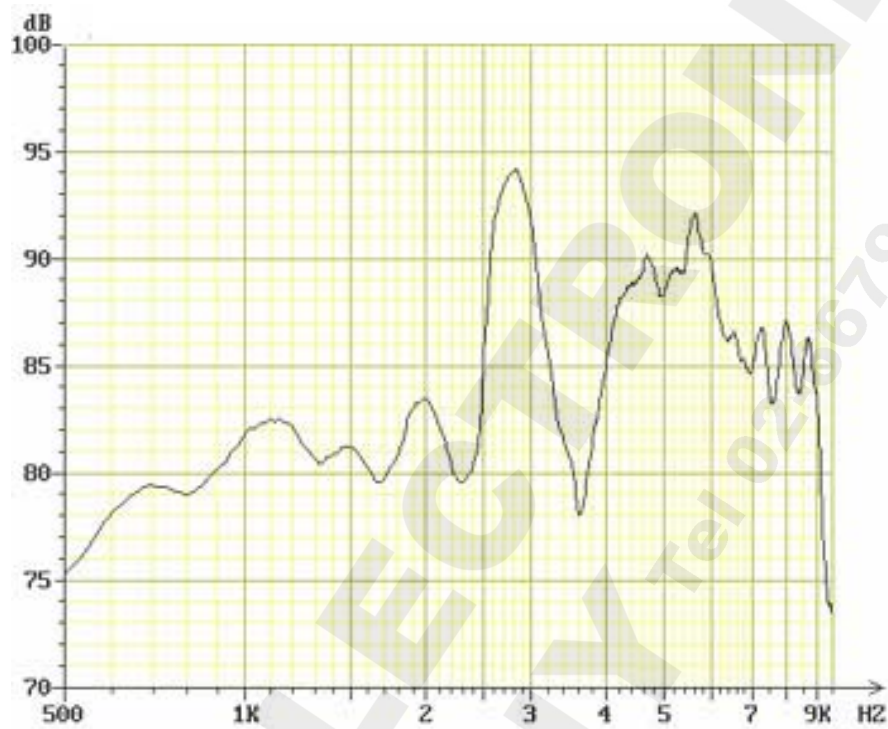
DATE:2008. 1. 11	PRODUCT SPECIFICATION G09B-1	CUSTOMER:
PAGE:3/5	(ELECTROMAGNETIC TRANSDUCER)	PRODUCER:

6. DIMENSION (UNIT:mm)



DATE:2008. 1. 11	PRODUCT SPECIFICATION G09B-1 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE:4/5		PRODUCER:

7. FREQUENCY RESPONSE (typical curve of type XCMT09B2701P)



DATE: 2008. 1. 11	PRODUCT SPECIFICATION G09B-1 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 5/5		PRODUCER:

GREEN ELECTRONICS CO., LTD.

GEC09B-3

FEATURES:

Case: Noryl, Black

Pin: Tin-plated copper

SPECIFICATIONS:

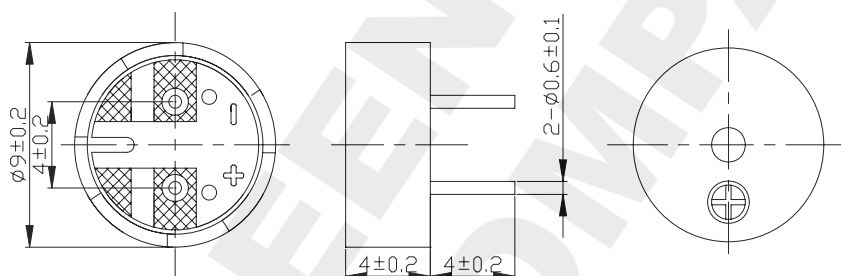
TYPE	UNIT	GEC09B-1
◆ Min. Sound Output at 10cm	dB	85
Rated Voltage	V _{0-p}	3
Operating Voltage	V _{0-p}	2~5
Resonant Frequency	Hz	2730
◆ Max. Current Consumption	mA	80
Coil Resistance	Ω	6±1
◇ Coil Impedance	Ω	15
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-30~+80
Weight	g	0.7

◆ Value applying at (rated voltage, 2730 Hz, 1/2 duty square wave)

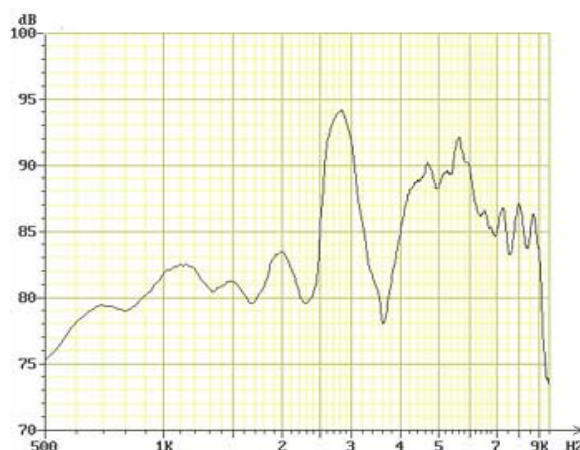
◇ Value applying at (2730 Hz, sine wave, measuring current 60μA)

DIMENSIONS :

(Unit: mm)



FREQUENCY RESPONSE:



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SPECIFICATION SHEET

CUSTOMER:

PRODUCT: ELECTROMAGNETIC TRANSDUCER

MODEL NUMBER: G09B-3

GREEN

ELECTRONICS CO., LTD.



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SEOUL, KOREA ***Http://***WWW.GREENELEC.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 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	: 2-5V
3-2 RATED VOLTAGE	: 3V
3-3 RESONANT FREQUENCY	: 2730 Hz
3-4 RATED CURRENT	: 80mA MAX.
3-5 SOUND PRESSURE LEVEL	: 85dB MIN.
3-6 COIL RESISTANCE	: 6 ± 1 OHM
3-7 COIL IMPEDANCE	: 15 OHM
3-8 OPERATING TEMPERATURE	: -20°C- +70°C
3-9 STORAGE TEMPERATURE	: -30°C- +80°C

DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-3 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 1/5		PRODUCER:

4. RELIABILITY TEST

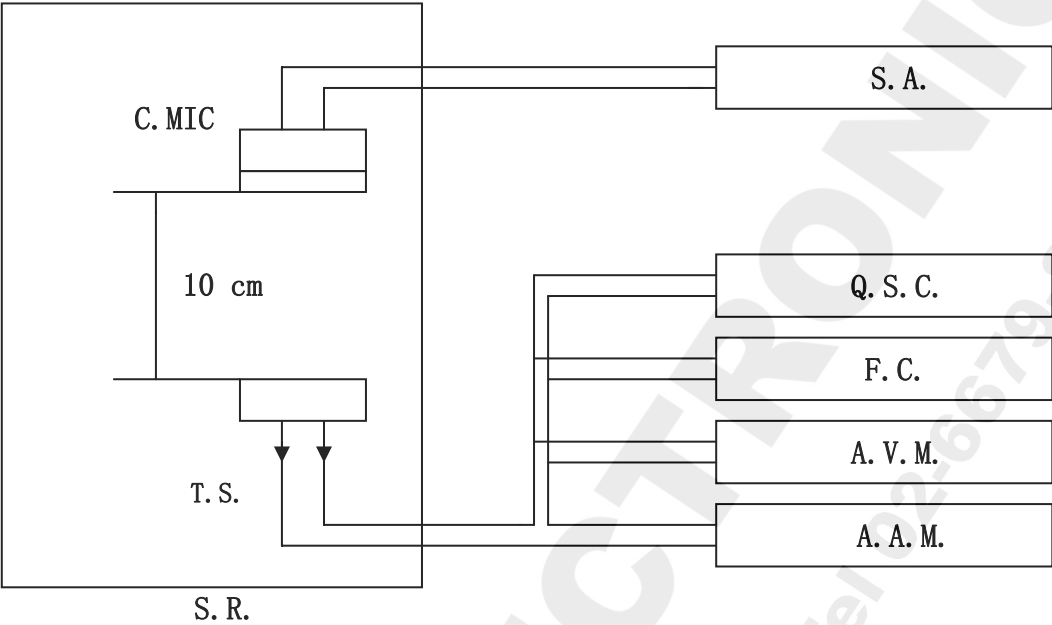
NO.	ITEM	TESTING CONDITION	VARIANCE AFTER TEST
4-1	HUMIDITY	$55 \pm 5^{\circ}\text{C}$, $95 \pm 3\%\text{RH}$ 96HRS	SOUND PRESSURE LEVEL INITIAL VALUE $\pm 10\%$
4-2	HIGH TEMP.	$+80 \pm 2^{\circ}\text{C}$, 96HRS	
4-3	LOW TEMP.	$-30 \pm 2^{\circ}\text{C}$, 96HRS	
4-4	TEMPERATURE CYCLING	$-30 \pm 2^{\circ}\text{C}$ 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.

DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-3 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 2/5		PRODUCER:

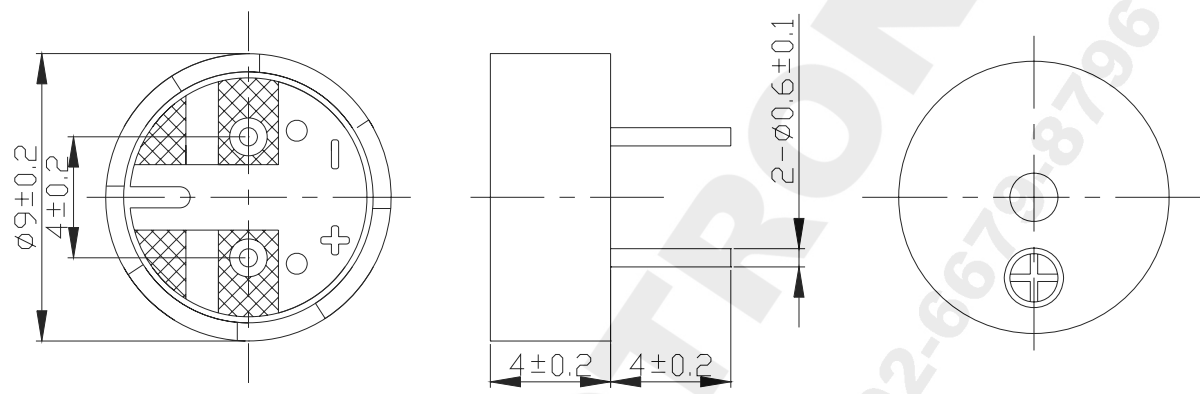
5. ELECTRICAL CHARACTERISTICS TEST METHOD



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

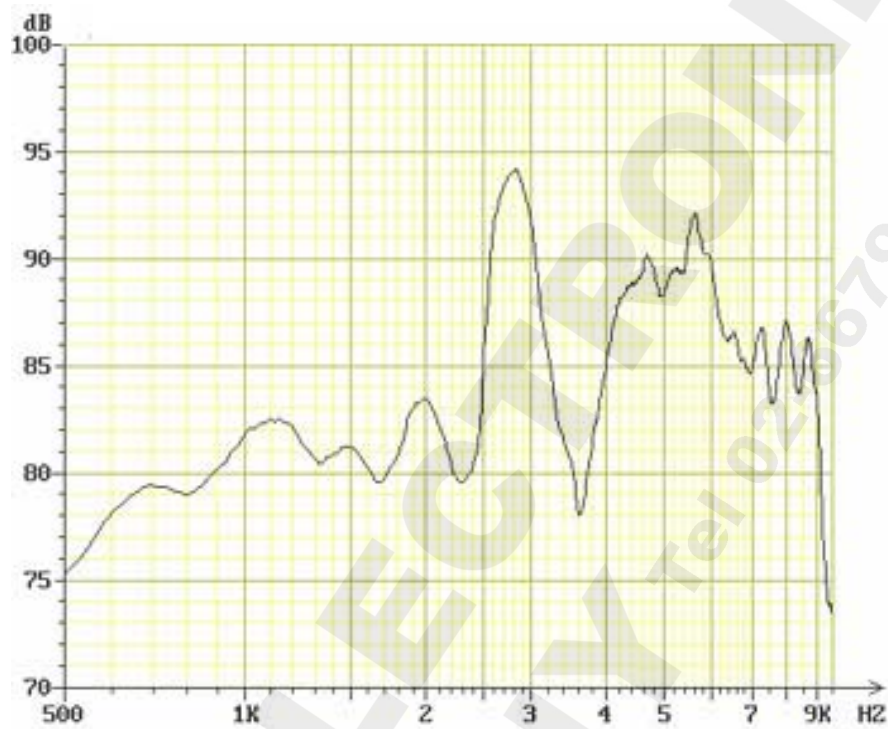
DATE:2004. 1. 11	PRODUCT SPECIFICATION G09B-3 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE:3/5		PRODUCER:

6. DIMENSION (UNIT:mm)



DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-3 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 4/5		PRODUCER:

7. FREQUENCY RESPONSE (typical curve of type XCMT09B2701P)



DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-3 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 5/5		PRODUCER:

GREEN ELECTRONICS CO., LTD.

GEC09B-5

FEATURES:

Case: Noryl, Black

Pin: Tin-plated copper

SPECIFICATIONS:

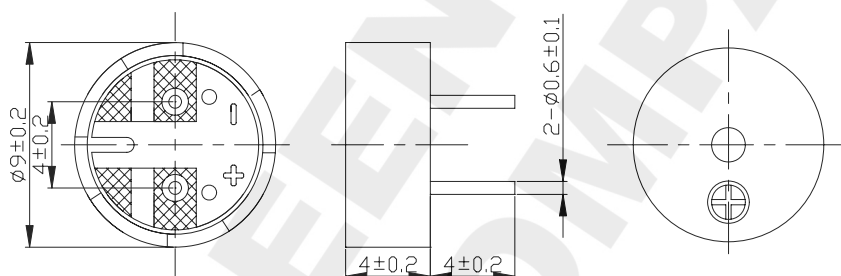
TYPE	UNIT	GEC09B-5
◆ Min. Sound Output at 10cm	dB	85
Rated Voltage	V _{0-p}	5
Operating Voltage	V _{0-p}	3~6
Resonant Frequency	Hz	2730
◆ Max. Current Consumption	mA	80
Coil Resistance	Ω	6±1
◇ Coil Impedance	Ω	15
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-30~+80
Weight	g	0.7

◆ Value applying at (rated voltage, 2730 Hz, 1/2 duty square wave)

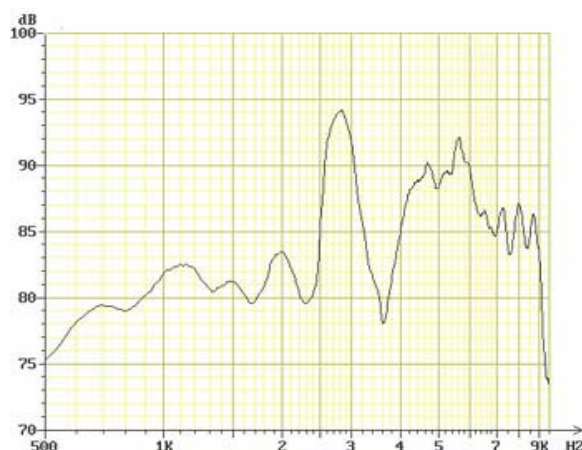
◇ Value applying at (2730 Hz, sine wave, measuring current 60μA)

DIMENSIONS :

(Unit: mm)



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SPECIFICATION SHEET

CUSTOMER:

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MODEL NUMBER: G09B-5

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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 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	: 3-6V
3-2 RATED VOLTAGE	: 5V
3-3 RESONANT FREQUENCY	: 2730 Hz
3-4 RATED CURRENT	: 80mA MAX.
3-5 SOUND PRESSURE LEVEL	: 85dB MIN.
3-6 COIL RESISTANCE	: 6 ± 1 OHM
3-7 COIL IMPEDANCE	: 15 OHM
3-8 OPERATING TEMPERATURE	: -20°C- +70°C
3-9 STORAGE TEMPERATURE	: -30°C- +80°C

DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-5 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 1/5		PRODUCER:

4. RELIABILITY TEST

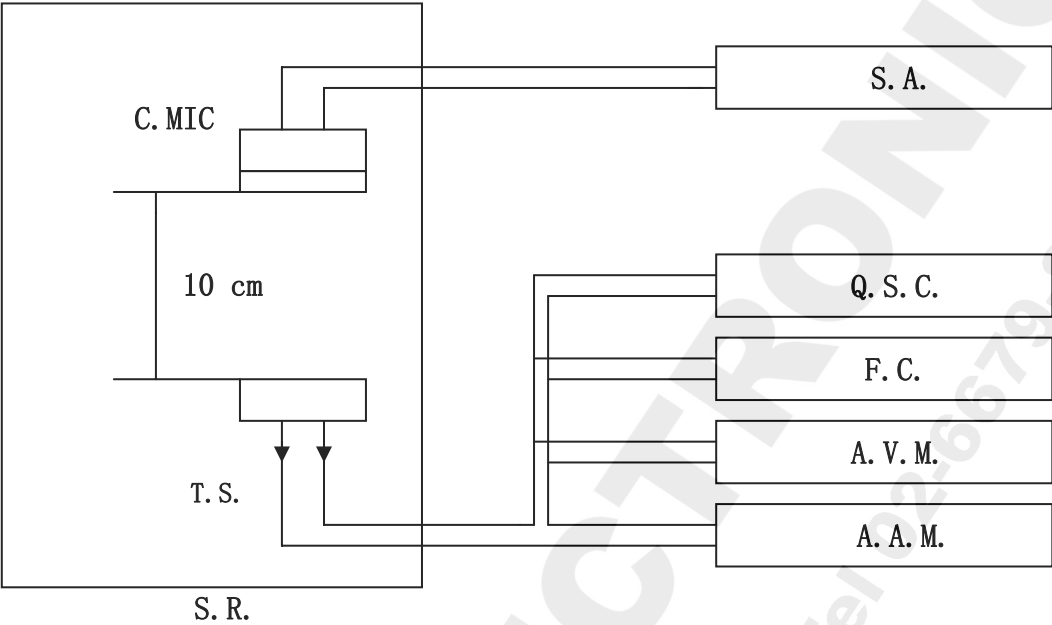
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4-1	HUMIDITY	$55 \pm 5^{\circ}\text{C}$, $95 \pm 3\%\text{RH}$ 96HRS	SOUND PRESSURE LEVEL INITIAL VALUE $\pm 10\%$
4-2	HIGH TEMP.	$+80 \pm 2^{\circ}\text{C}$, 96HRS	
4-3	LOW TEMP.	$-30 \pm 2^{\circ}\text{C}$, 96HRS	
4-4	TEMPERATURE CYCLING	$-30 \pm 2^{\circ}\text{C}$ 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.

DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-5 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 2/5		PRODUCER:

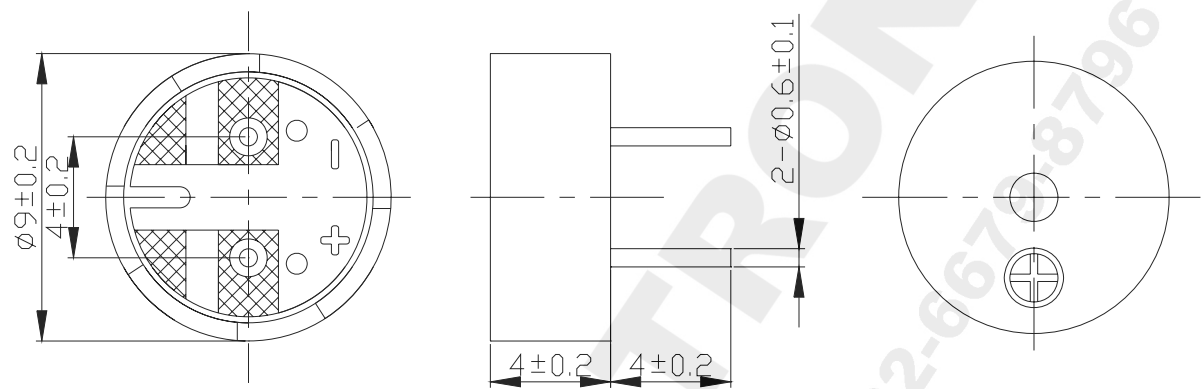
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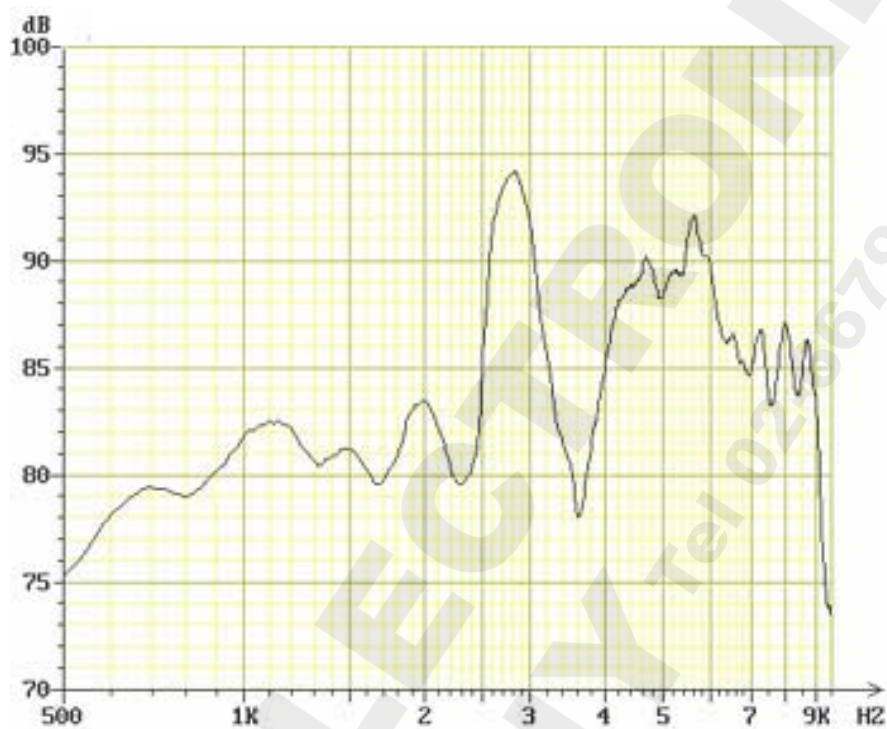
DATE:2004. 1. 11	PRODUCT SPECIFICATION G09B-5 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE:3/5		PRODUCER:

6. DIMENSION (UNIT:mm)



DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-5 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 4/5		PRODUCER:

7. FREQUENCY RESPONSE (typical curve of type XCMT09B2701P)



DATE: 2004. 1. 11	PRODUCT SPECIFICATION G09B-5 (ELECTROMAGNETIC TRANSDUCER)	CUSTOMER:
PAGE: 5/5		PRODUCER: