# MESSRS.

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## SPECIFICATION FOR APPROVAL

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Product	MAGNETIC BUZZER (SMD)
Part No.	AD-8501-CX4
Customer	
Approval	

Approved By	Checked By	Made By
工程部	工程部	工程部
王台平	劉民祥	許俊程
AUG-30-2004	AUG-30-2004	AUG-30-2004



### AD-8501-CX4

#### FEATURES

Compact : rich sound magnetic buzzer. Applications : Mobile phone , PDA , pager etc.

	Items	Units	Specifications	Conditions
01	Rated Voltage	Vo-p	1.5	Vo_p
02	Operating Voltage	Vo-p	1.0~3.0	
03	Consumption Current	mA (max)	100	Standard State, Standard Drive Circuit.
05	Sound Pressure Label	dB (min)	87	Rated Voltage, Distance at 10 cm free air 2730Hz, Square Wave 1 / 2 Duty
06	Resonant Frequency	Hz	2730±200	
04	Coil Resistance	Ω	6±1	At Basic State
07	Operating Temp.	°C	-40 ~ +85	
08	Storage Temp.	°C	-50 ~ +95	
09	Dimension	mm	8.5 x 8.5 x 4	See attached drawing.
10	Weight	Gram	0.6	

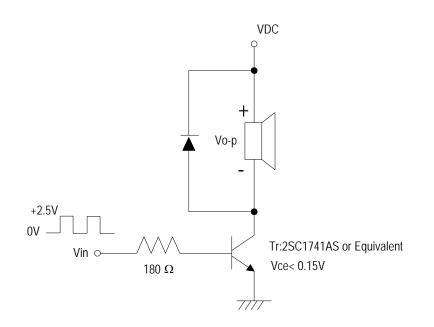
#### Standard condition:

Ordinary Temp.( $15~35^{\circ}$ C), Humidity(25~85%RH), Air Pressure(860~1060HPa) In case of doubtful judgment, the test is re-performed under basic state.

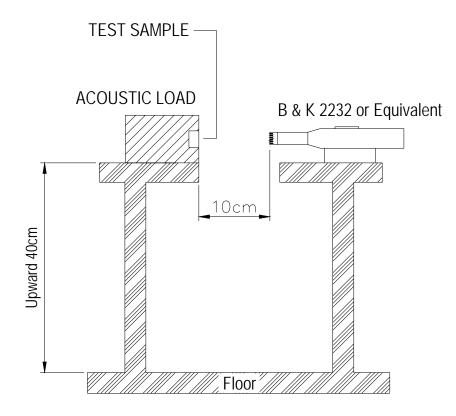
#### Basic State:

Temp.(20±2°C), Humidity(60~70%RH), Air Pressure(860~1060HPa).

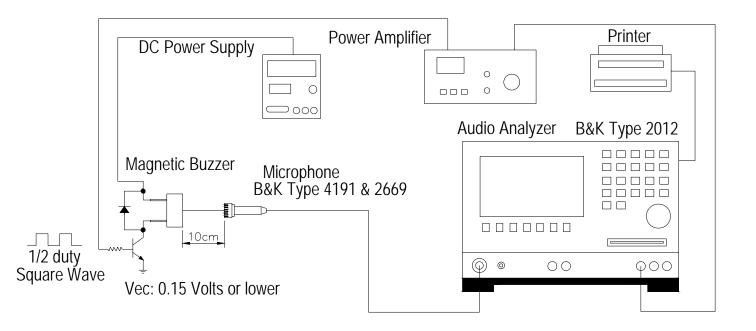
#### Standard Drive Circuit:



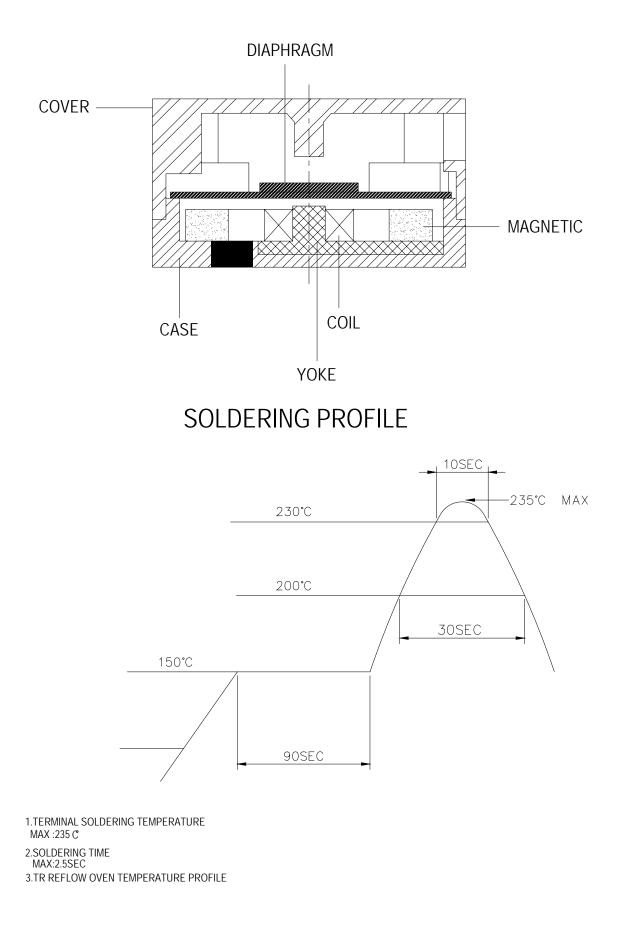
## STANDARD TEST FIXTURE



## Standard test condition of magnetic buzzer

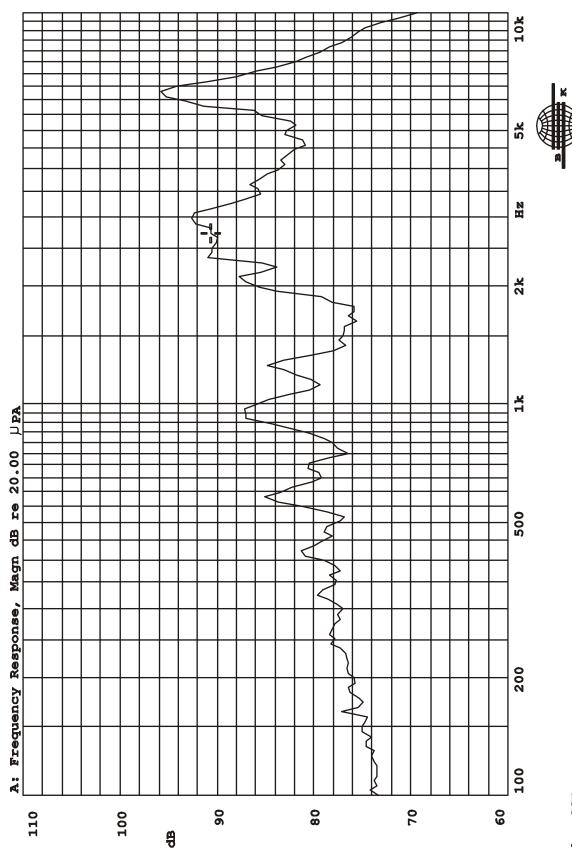


## STRUCTURAL SPECIFICATION



Х:2.7384кнz Y:90.70dB

ZA:Live Curve SSR T. RMS



Mode: SSR

	Ю.	REVISION NOTE		APPROVAL	DATE
C. 80 10.5		SOUND PORT	0.3	1.6	*
-т					
	0 TRANSDUCER (SML -8501-CX4	D) DRAWN: Kitty DESIGNED: R CHECKED:	&D OF AAT	SCALE: 4:1 SHI UNITS: mm TOLERANCE ±	

	REV NO.	REVISION NOTE	APPROVAL DATE
		3-2.16	
TITLE: PART NO. DWG NO.	RECOMMENDED LAND PATTERN DIMENSIONS AD-8501-CX4 DTE-1175	DRAWN: Kitty 2004/08/0 DESIGNED: R&D OF AAT CHECKED: APPROVAL: REV MATERIAL: LCP	7 SCALE: 4:1 SHEET: 1 OF 1 UNITS: mm TOLERANCE ± *** UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***
	ADVANCED ACC	OUSTIC TECHNOLOGY	CORPORATION

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Item		Test conditions	Evaluation standard
1	High temp storage life	The part shall be capable of withstanding the storage temperature of $+95^{\circ}$ C for 240 hours.	
2	Low temp storage life	The part shall be capable of withstanding the storage temperature of $-50^{\circ}$ for 240 hours.	
3	Temp. cycle	The part shall be subjected to 5 cycles one cycle shall consist of -40° C 30min 30min 60min	
4	Temp./ Humidity cycle	The part shall be subjected to 10cycle One cycle shall be 24 hours and consist of $60^{\circ} C$ $25^{\circ} C$ $10^{\circ} C$ 4.8, D, E, G, H, J:90~98% RH C, F :80~98% RH	After the test, the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 67dB or more
5	Operating life	Driving the sounder at 25±10℃ for 240hrs. Input 3.0V₀-P square wave 2000Hz	
6	High temp.	The part shall be subjected to 240 hours at $+85^{\circ}$ C with 3.0V <sub>0-P</sub> ,2000Hz applied.	
7	Low temp.	The part shall be subjected to 240 hours at -40°C with 3.0V0-P,2000Hz applied.	
8	Vibration	10~55Hz 1.5mm 55~150Hz 5G 10~200~10Hz 15minutes X,Y,Z,3directions 2h/direction.	
9	Fixed drop	The part mounted on an exclusive fixture(115g) shall be dropped 5 times from a height of 152cm onto concrete in each of 6 different axes(total 6 times)	
10	Free drop	The part shall be dropped freely from a height of 100cm onto concrete 1 time in 6 axes.(total 6 time)	
11	Solder ability	The part leads shall be immersed in molten solder maintained at $235\pm5^{\circ}$ C for a period of $2.0\pm0.5$ seconds	Ninety-five percent(95%) coverage with a continuous coating of bright new solder
12	Strength of Terminal	It shall be more than 10N in the vertical direction of terminal in the state that 4 terminals are soldered on PCB	Same as items of No. 1 to No. 10

