
SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER (SMD)
Part No.	AD-9004-AW
Customer Approval	

Approved By	Checked By	Made By



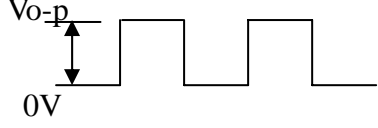
A & B Components

<http://www.speaker-tw.com>

AD-9004-AW

FEATURES

Applications : Mobile phone , PDA , pager etc.

Items		Units	Specifications	Conditions
01	Rated Voltage	Vo-p	3.6	
02	Operating Voltage	Vo-p	2.5 ~ 4.5	
03	Consumption Current	mA (max)	Mean 100	Standard State, Standard Drive Circuit. Rated Voltage, Distance at 10 cm free air 2600Hz, Square Wave 1 / 2 Duty
			Peak 300	
04	Sound Pressure Label	dB (min)	85	
05	Resonant Frequency	Hz	2670	
06	Coil Resistance	Ω	16 ± 3	
07	Operating Temp.	$^{\circ}\text{C}$	-20 ~ +60	
08	Storage Temp.	$^{\circ}\text{C}$	-30 ~ +70	
09	Weight	Gram	0.8	

Test Condition

STANDARD

Temperature : 15 ~ 35 $^{\circ}\text{C}$

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

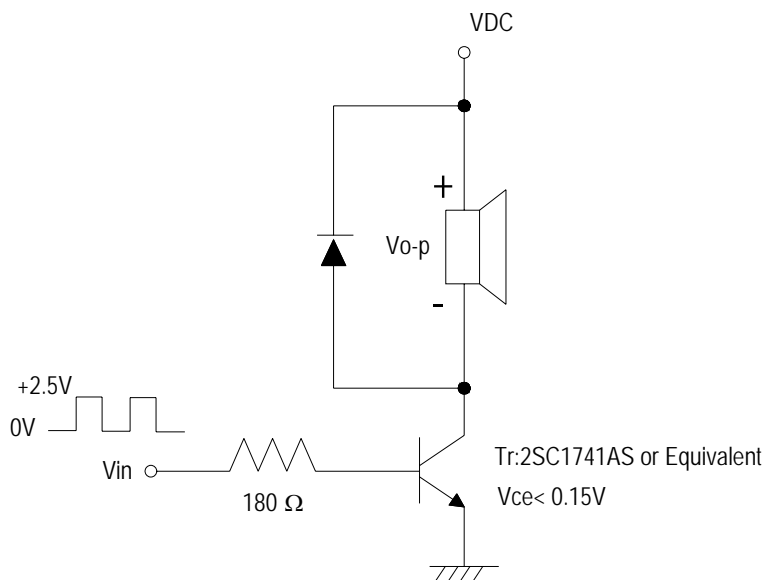
JUDGEMENT

Temperature : 20 \pm 3 $^{\circ}\text{C}$

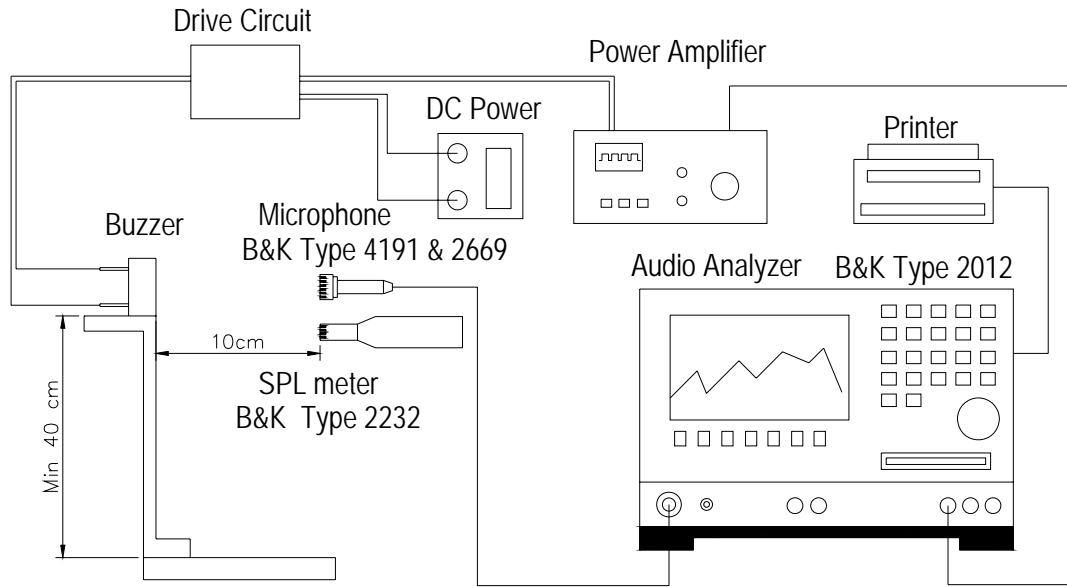
Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

Standard Drive Circuit

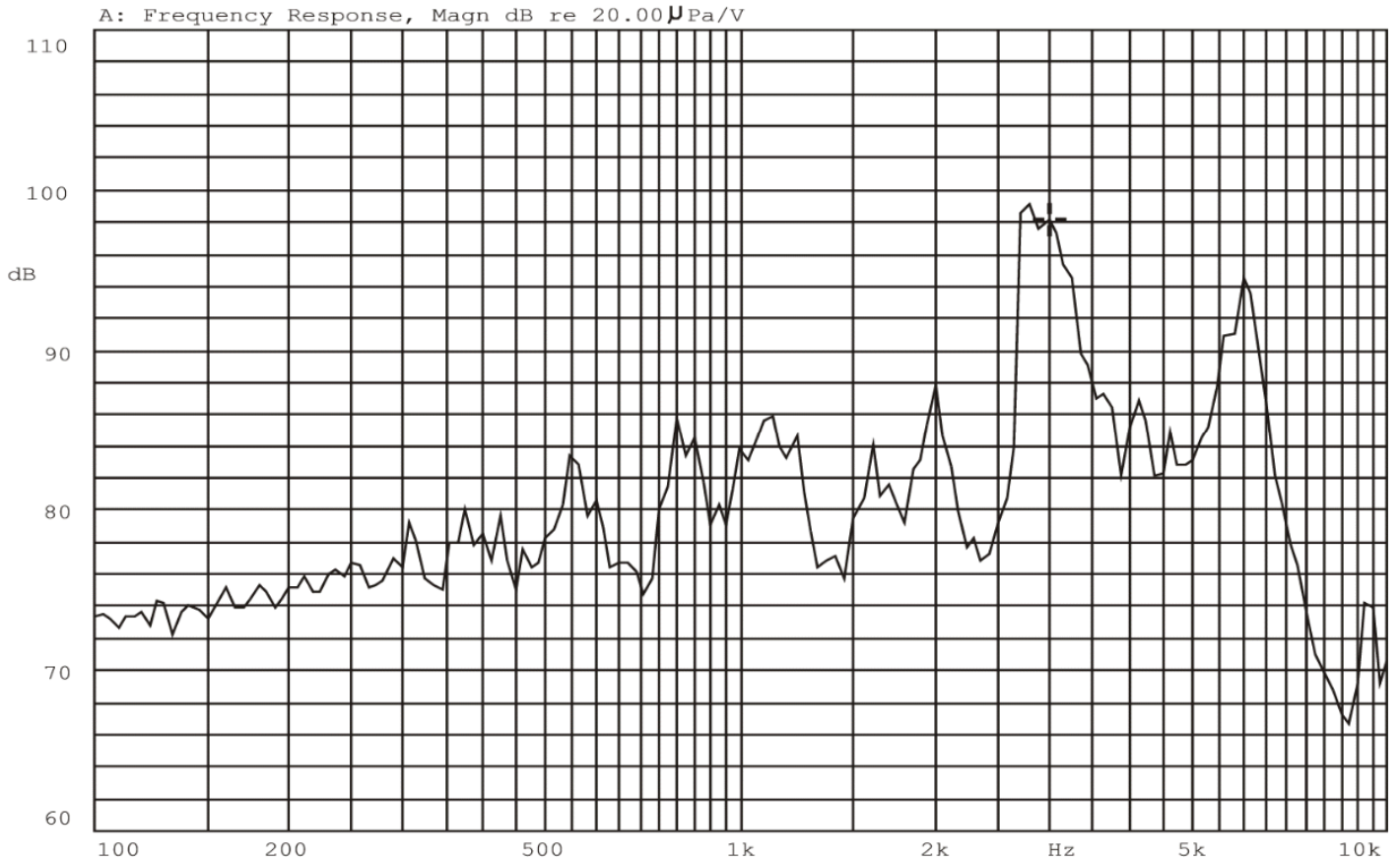


Standard Test Fixture



Frequency Response Curve

X:3.0000kHz *Y:98.18dB ZA:Live Curve SSR T. RMS

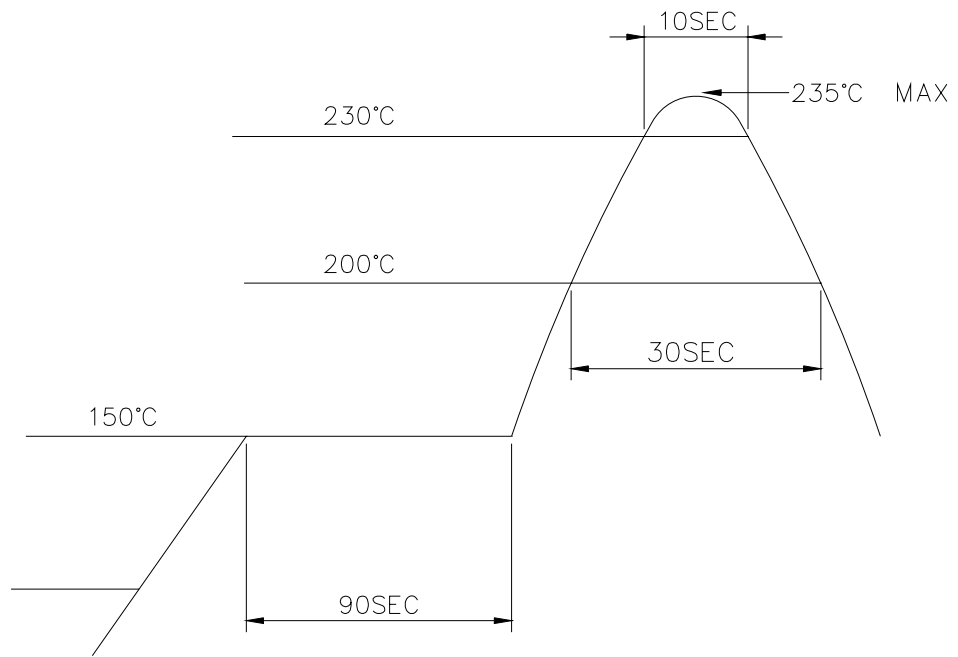


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Mode: SSR

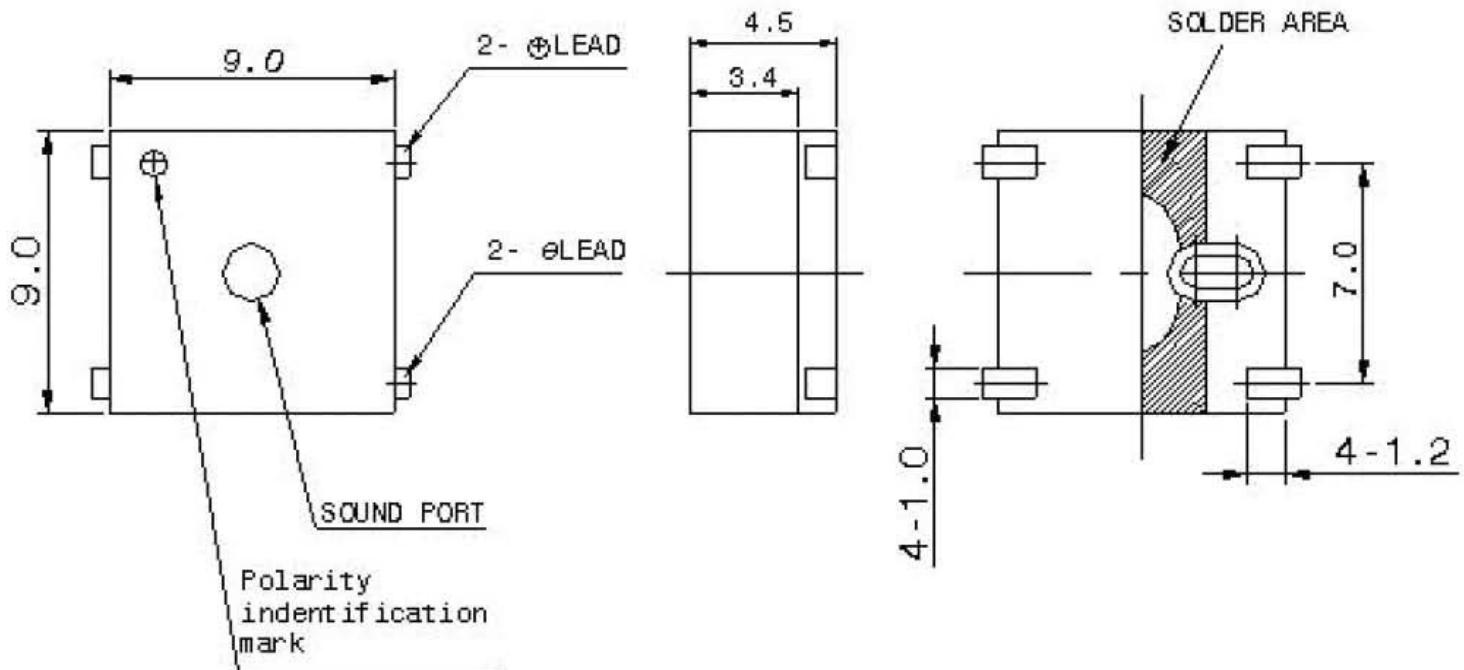


SOLDERING PROFILE



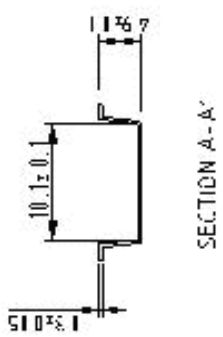
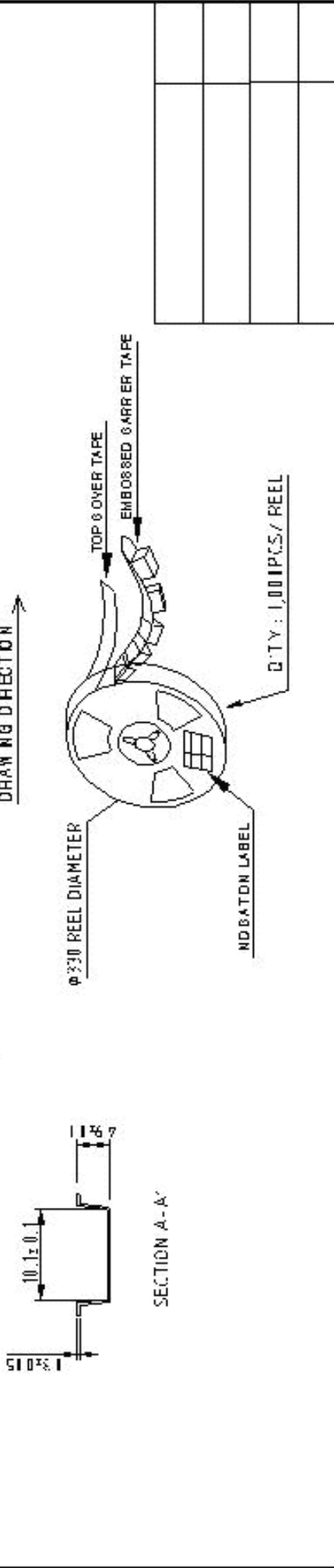
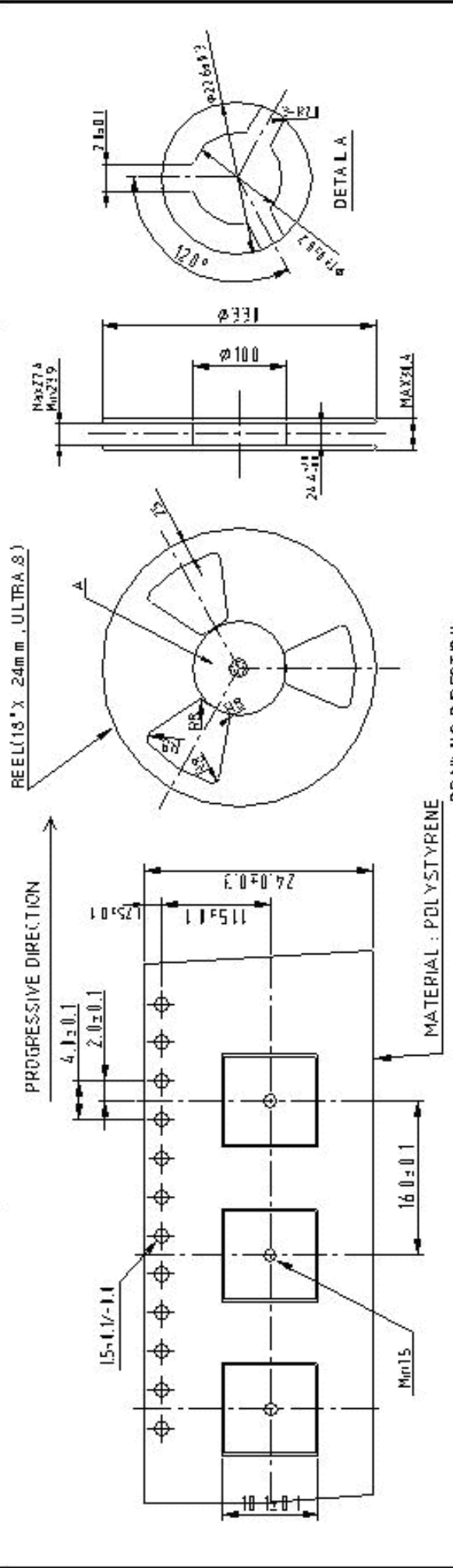
1. TERMINAL SOLDERING TEMPERATURE
MAX :235 C
2. SOLDERING TIME
MAX:2.5SEC
3. TR REFLOW OVEN TEMPERATURE PROFILE

■ DIMENSIONS



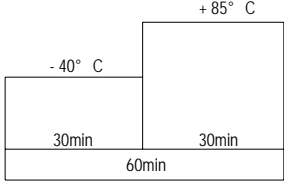
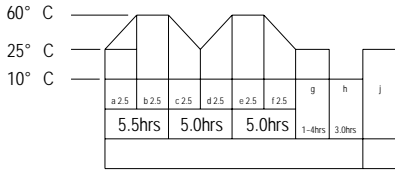
unit : mm

DWG. NO. _____ TOLERANCE _____



APPROVED	MATERIAL	DATE	1999 3 15
CHECKED	FINISH	DRAWING NO	
DESIGNED	MODEL NAME	AD-9004-AW	
CHANGE CONTENTS	UNIT : m m		
DATE	SCALE		
NO	CHANGE NO		

RELIABILITY TEST

Item	Test conditions	Evaluation standard
1 High temp storage life	The part shall be capable of withstanding the storage temperature of +95°C for 240 hours.	
2 Low temp storage life	The part shall be capable of withstanding the storage temperature of -50°C for 240 hours.	
3 Temp. cycle	<p>The part shall be subjected to 5 cycles one cycle shall consist of</p> 	
4 Temp./ Humidity cycle	<p>The part shall be subjected to 10cycle One cycle shall be 24 hours and consist of</p>  <p>A,B,D,E,G,H,J:90~98%RH C,F :80~98%RH</p>	<p>After the test, the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 78 or more</p>
5 Operating life	Driving the sounder at 25±10°C for 240hrs. Input Rated Voltage and Frequency.	
6 High temp.	The part shall be subjected to 240 hours at +85°C Input Rated Voltage and Frequency.	
7 Low temp.	The part shall be subjected to 240 hours at -40°C Input Rated Voltage and Frequency.	
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±5°C for a period of 2.0±0.5 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