

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

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

Approved By	Checked By	Made By



ADVANCED ACOUSTIC TECHNOLOGY CORP.

苙 翔 科 技 股 份 有 限 公 司



ISO 9001 Certified

4F, No.238, Sec. 6, Chung Shan N. Rd., Taipei, Taiwan, R.O.C.

Tel: +886-2-88665255

Fax: +886-2-88665250

E-mail: aat_mail@seed.net.tw

AD-9004-AW

■ FEATURES

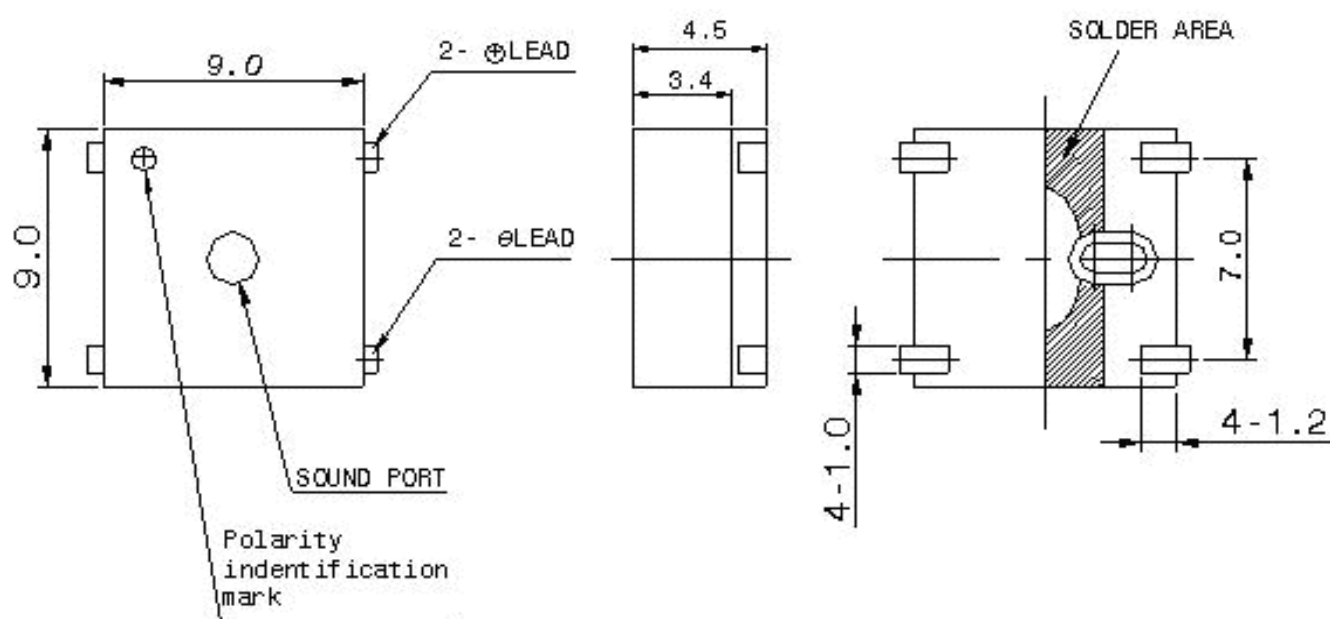
- Compact
Small and slim size of 9.0mmW × 9.0mmL × 4.5mmH
- Low profile design
- For reflow process
- Tape and reel packing

■ SPECIFICATIONS

TYPE	UNIT	AD-9004-AW
Rated voltage	V _{P-P}	3.6
Operating voltage	V _{P-P}	2.5~4.5
● Rated current	mA	Max 100
Coil resistance	Ω	16 ± 3
● Sound output at 10cm	dBA	Min 85(Typ 95)
Resonant frequency	Hz	2670
Operating temperature	℃	-30 to +70
Storage temperature	℃	-40 to +85
Weight	g	Max 1.0

- Value applying rated voltage(2670Hz, 1/2 duty, square wave)

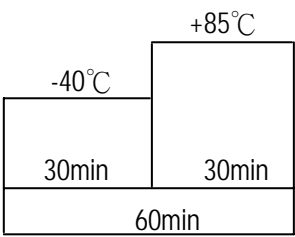

■ DIMENSIONS



unit : mm

Electro - mechanical audio transducers

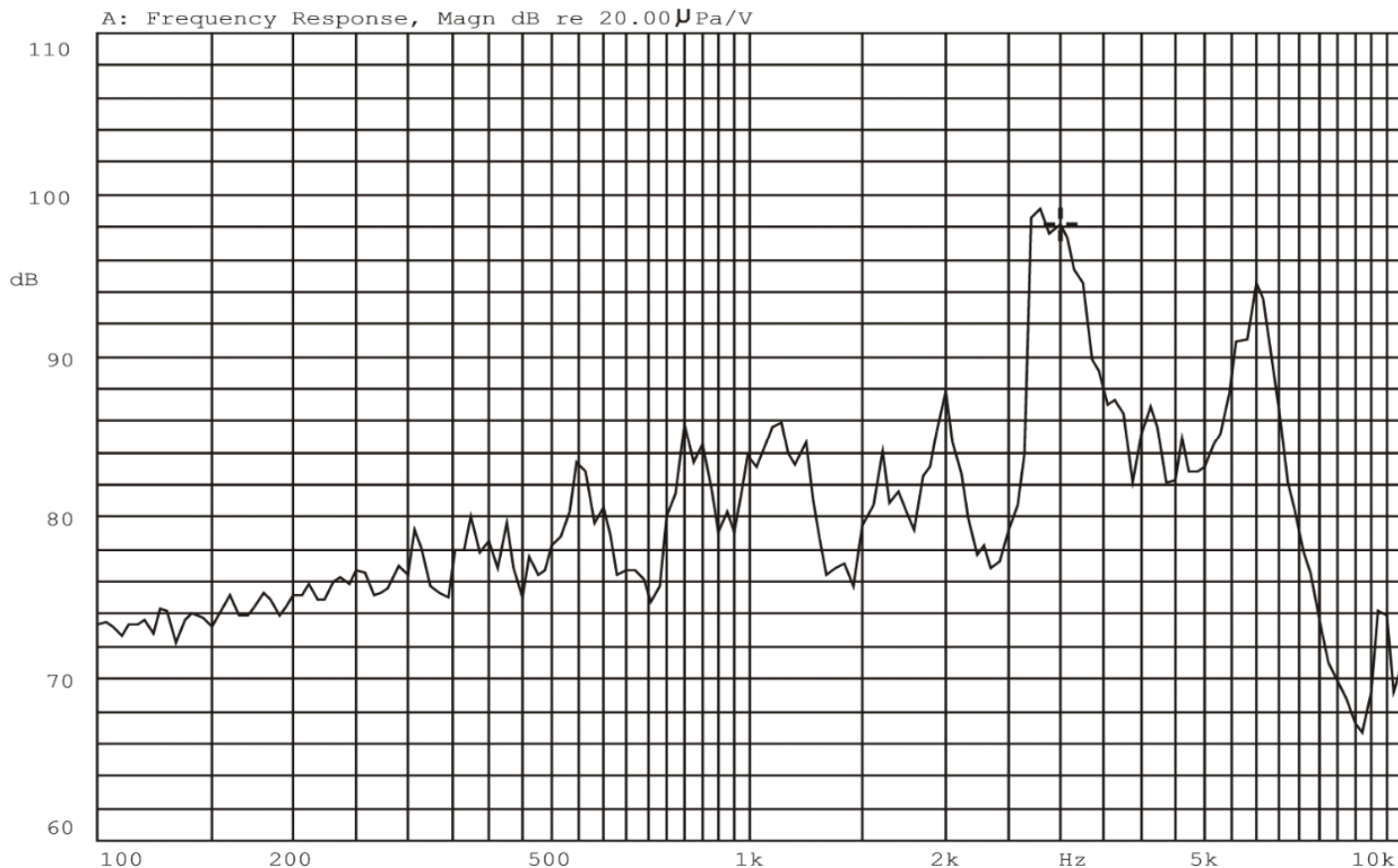
■ RELIABILITY

Item	Test conditions	Evaluation standard
1 High temp storage life	The part shall be capable of withstanding the storage temperature of +85°C for 240 hours.	After the test, the part shall meet specifications without any degradation in appearance and performance except SPL . SPL shall be 78dB or more.
2 Low temp storage life	The part shall be capable of withstanding the storage temperature of -40°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 10cycles One cycle shall be 24 hours and consist of</p>  <p>a,b,d,e,g,h,i : 90~98%RH c,f : 80~98%RH</p>	
5 Operating life	Driving the sounder at 25±10°C for 240hrs. Input 3.6Vp-p Squarewave 1/2duty 2670Hz.	
6 High temperature	The part shall be subjected to 240 hours at +70°C with 4.5V, 2670Hz applied.	
7 Low temperature	The part shall be subjected to 240 hours at -30°C with 2.5V, 2670Hz applied.	

Electro - mechanical audio transducers

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 30 times)	
10	Free drop	The part shall be dropped freely from a height of 100cm onto concrete 1 time in 6 axes. (total 6 times)	
11	Solderability	The part leads shall be immersed in molten solder maintained at $235\pm 5^{\circ}\text{C}$ 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 toward A direction in the state that 4 terminals are soldered on PCB.	Same as the items of No.1 to No.10

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



21-OCT-2000 12:24:43

Mode: SSR



◎ SOLDERING PROFILE

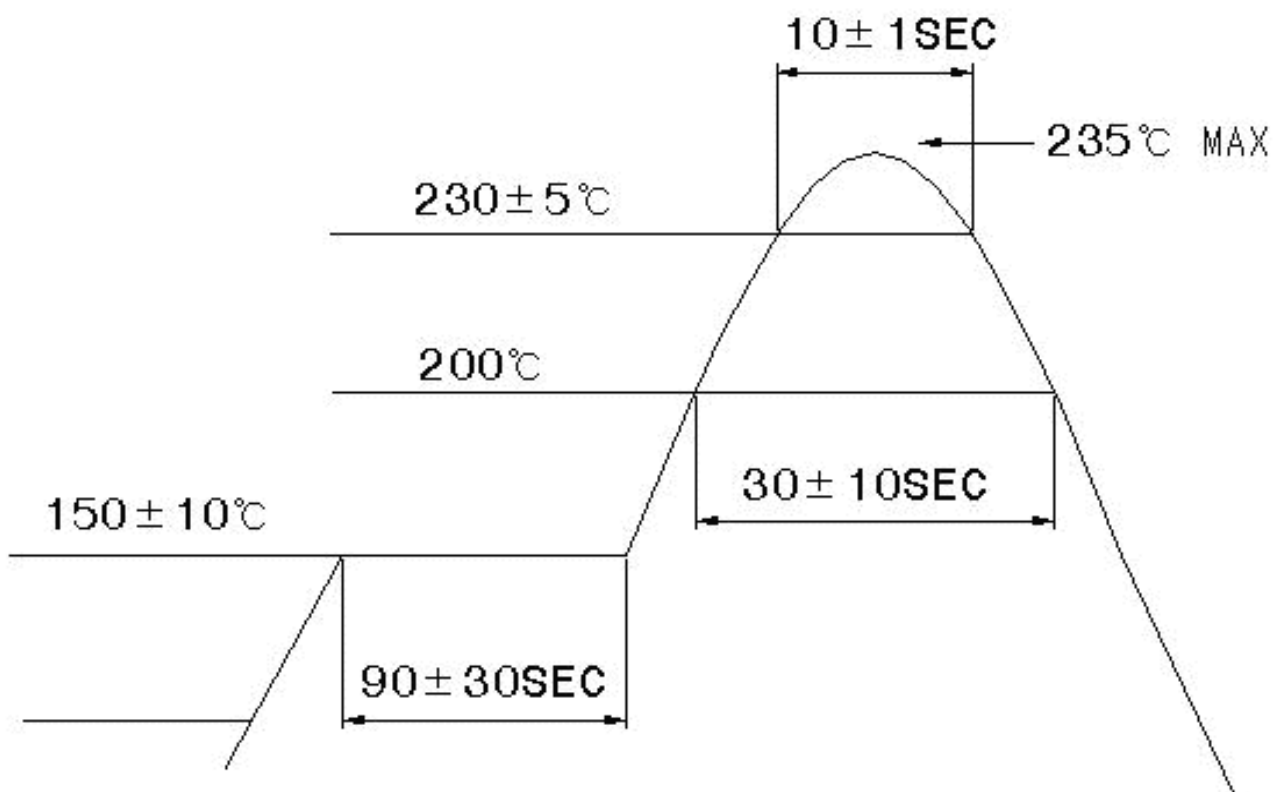
1. TERMINAL SOLDERING TEMPERATURE

: $235 \pm 5^{\circ}\text{C}$

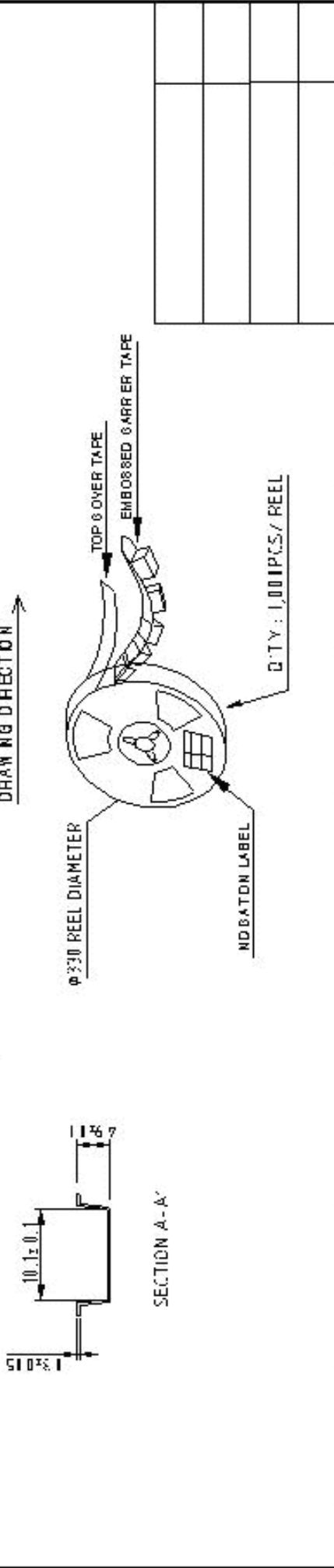
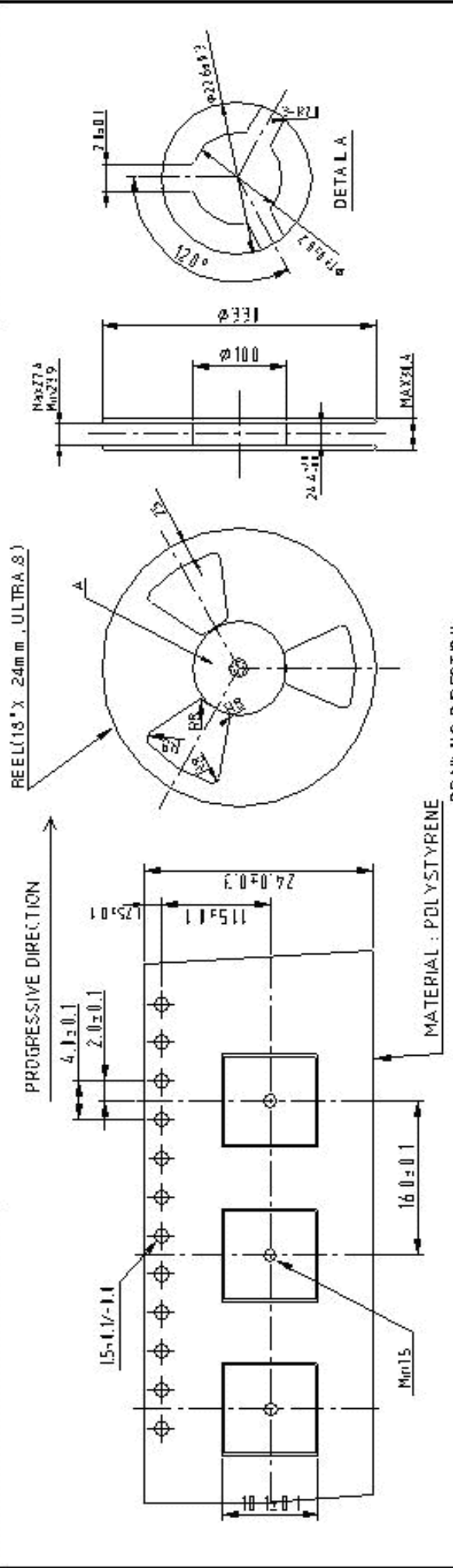
2. SOLDERING TIME

: $2 \pm 0.5\text{SEC}$

3. IR REFLOW OVEN TEMPERATURE PROFILE

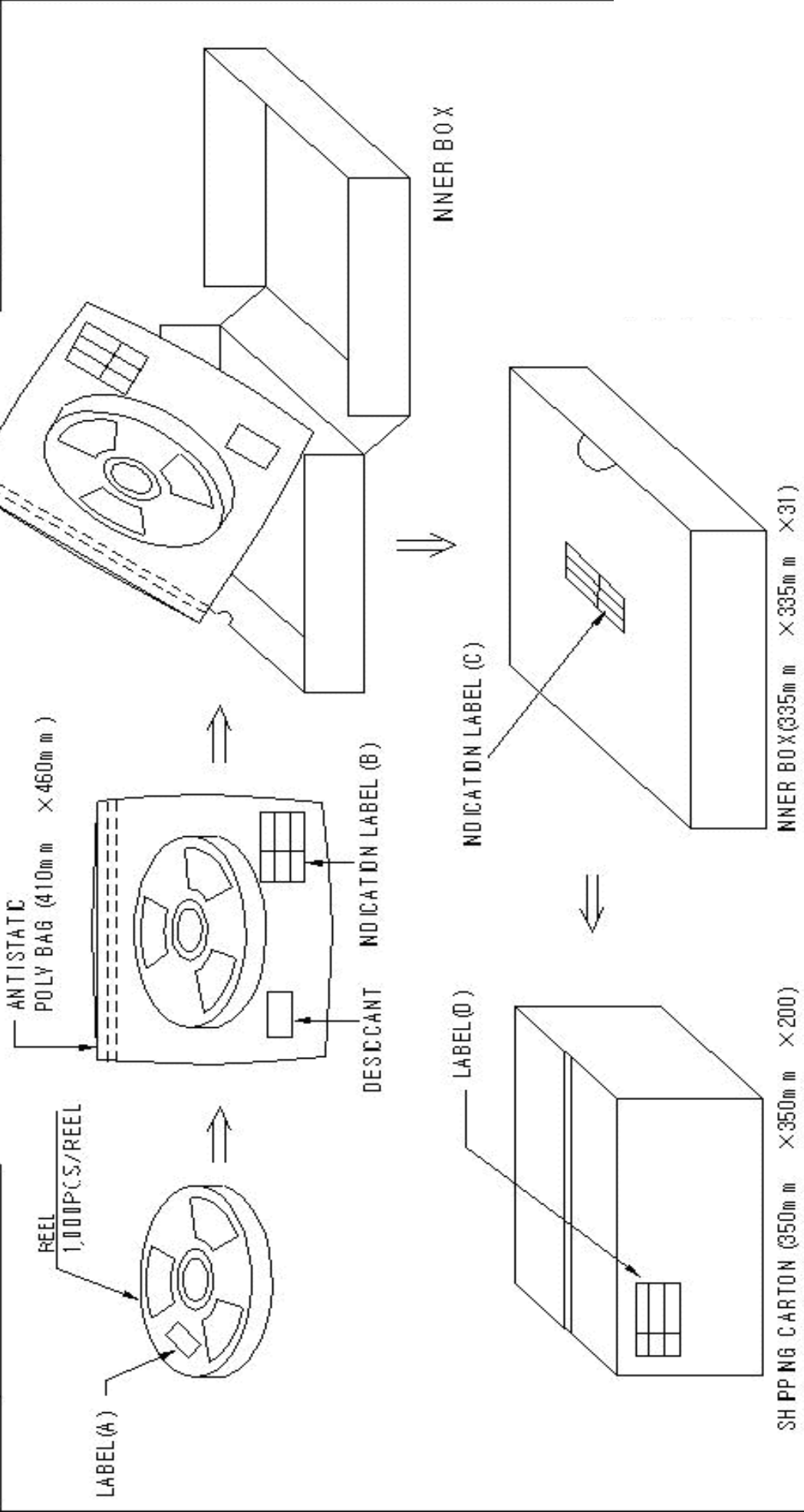


DWG. NO. _____ TOLERANCE _____



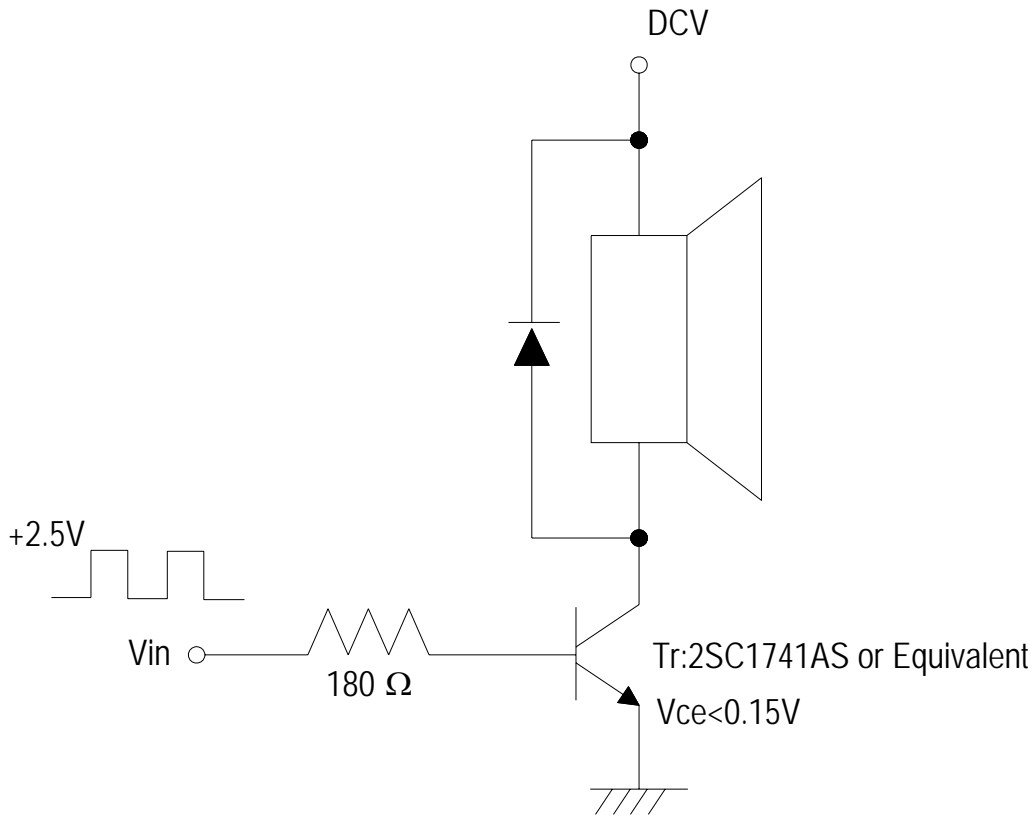
APPROVED	MATERIAL	DATE	1999 3 15
CHECKED	FINISH	DRAWING NO	
DESIGNED	MODEL NAME	AD-9004-AW	
SCALE	UNIT : m m	ADVANCED ACOUSTIC TECHNOLOGY CORP.	
CHANGE CONTENTS	CHANGE NO	DATE	

DWG. NO. _____ TOLERANCE _____



NO	DATE	CHANGE NO	CHANGE CONTENTS	APPROVED	MATERIAL	DATE
				CHECKED	FINISH	1999. 4. 20.
				DESIGNED	PART NAME	DRAWING NO
					UNIT : mm	MODEL NAME
					SCALE	SMD PACKING
ADVANCED ACOUSTIC TECHNOLOGY CORP.						

STANDARD DRIVE CIRCUIT



STANDARD TEST FIXTURE

