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# SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AD-1004-BZ
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

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

# AD-1004-BZ

## ■ FEATURES

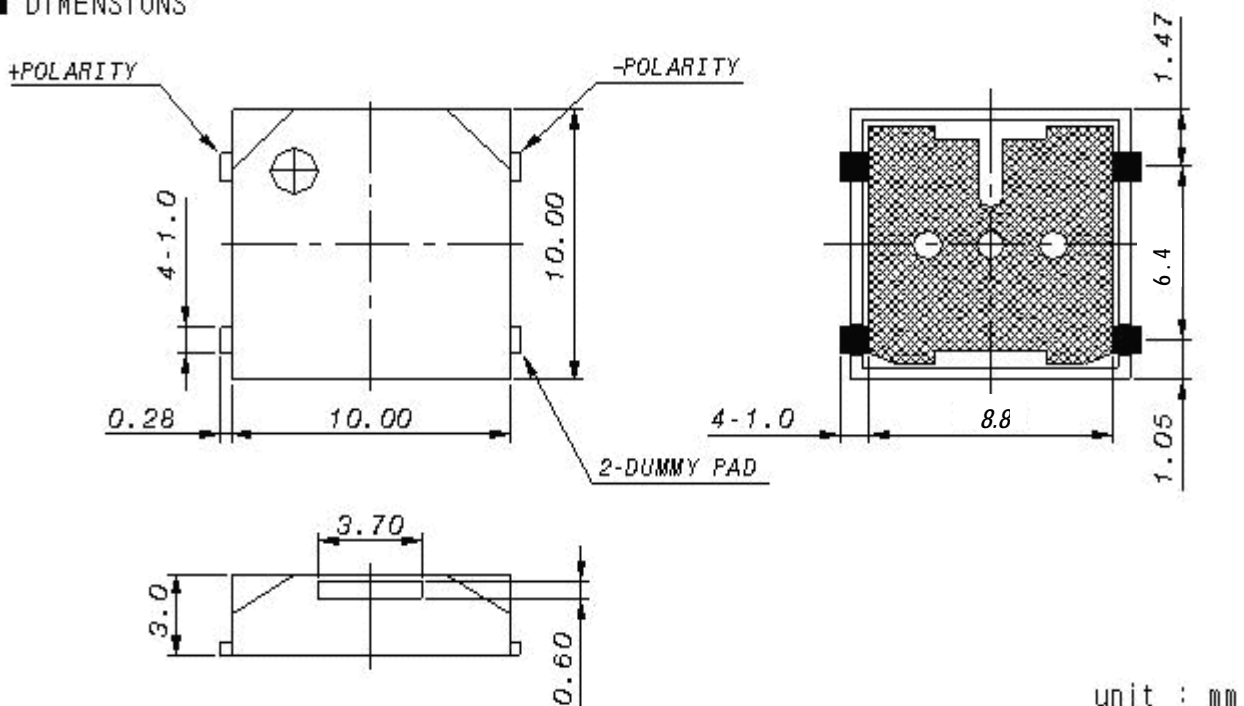
- Compact  
Small and slim size of 10mmW × 10mmL × 3.0mmH
- For reflow process
- Side sound port
- Tape and reel parking

## ■ SPECIFICATIONS

TYPE	UNIT	AD-1004-BZ
Rated voltage	V P-P	3.6
Operating voltage	V P-P	2.5~4.5
● Rated current	mA	Max 90
Coil resistance	Ω	<b>16 ± 3</b>
● Sound output at 10cm	dB(A)	Min 85(Typ 91)
Resonant frequency	Hz	2700
Operating temperature	°C	-20 to +60
Storage temperature	°C	-30 to +70
Weight	g	0.8

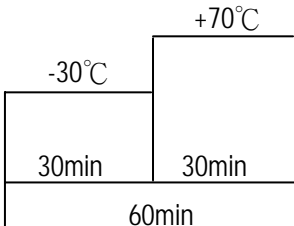
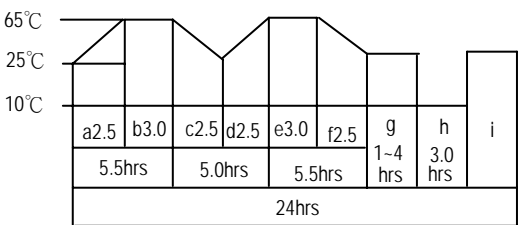
- Value applying rated voltage(2700Hz, 1/2 duty, square wave)

## ■ DIMENSIONS



# Electro - mechanical audio transducers

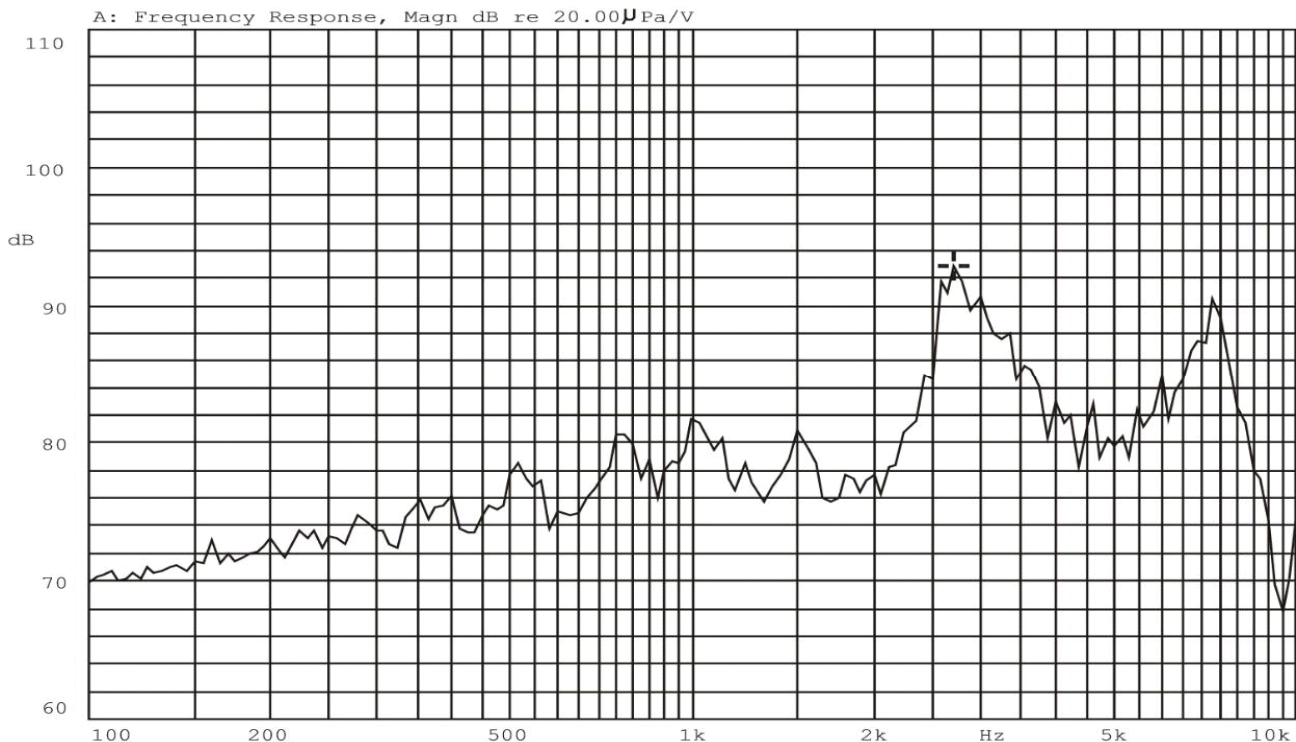
## ■ RELIABILITY

Item	Test conditions	Evaluation standard
1 High temp storage life	The part shall be capable of withstanding the storage temperature of +70°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 -30°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 2700Hz.	
6 High temperature	The part shall be subjected to 240 hours at +60°C with 4.5V, 2700Hz applied.	
7 Low temperature	The part shall be subjected to 240 hours at -20°C with 2.5V, 2700Hz 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 $2.0\pm 0.5$ 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:2.7200kHz \*Y:92.86dB ZA:Live Curve SSR T. RMS

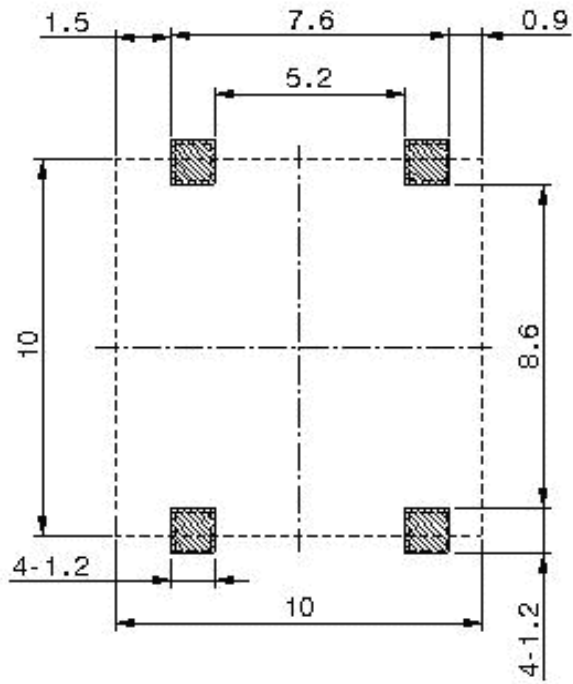


21-OCT-2000 11:00:29

Mode: SSR



Unit : mm



RECOMMENDED LAND PATTERN DIMENSIONS

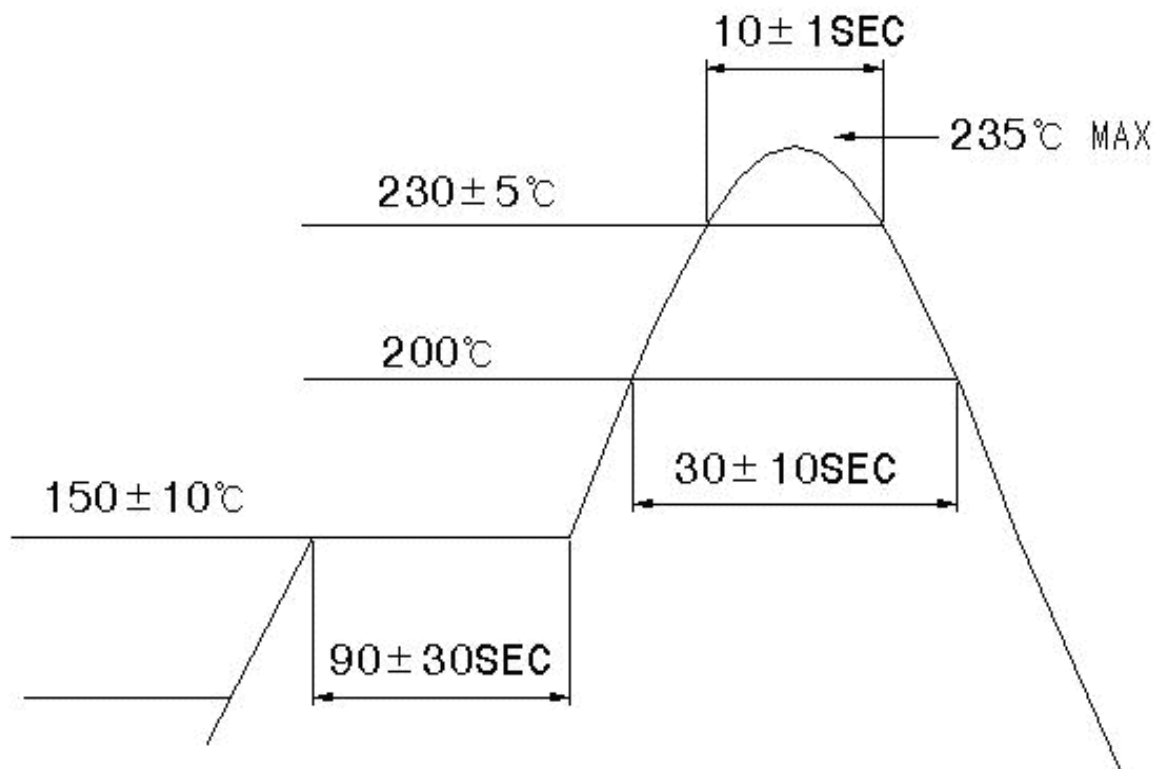
MODEL NO. : AD-1004-BZ

## ◎ SOLDERING PROFILE

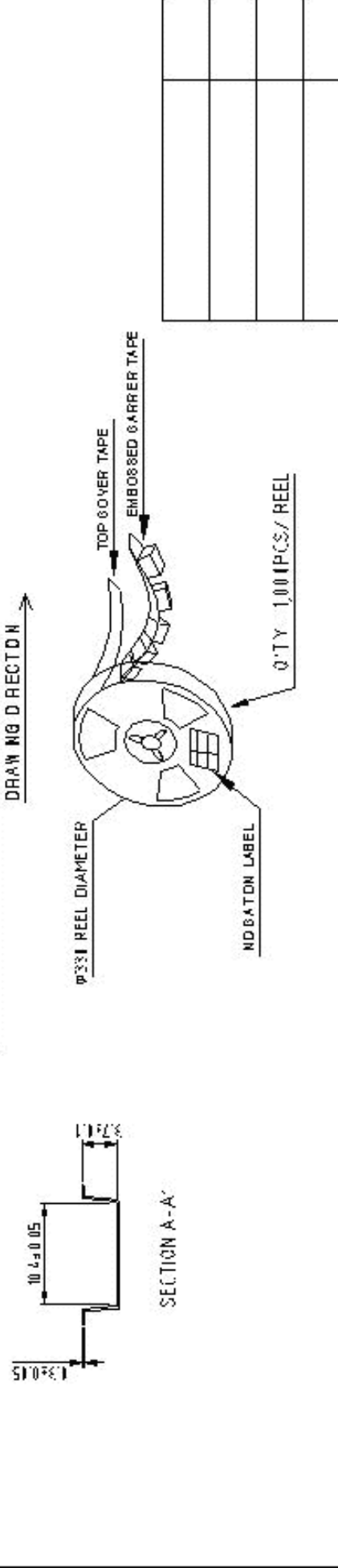
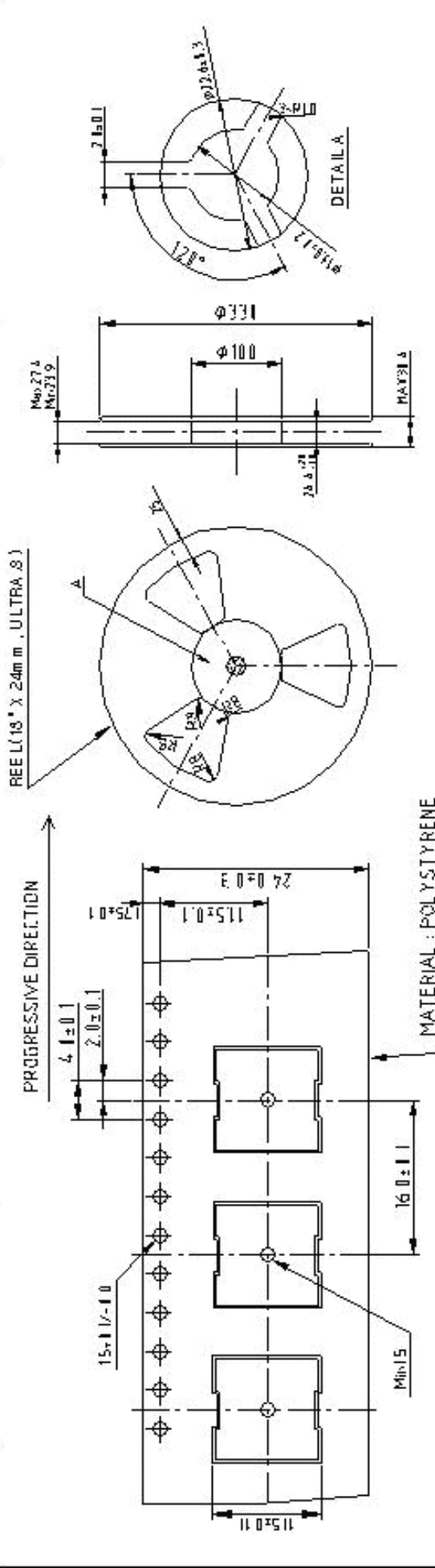
1. TERMINAL SOLDERING TEMPERATURE  
:  $235 \pm 5^\circ\text{C}$

2. SOLDERING TIME  
:  $2 \pm 0.5\text{SEC}$

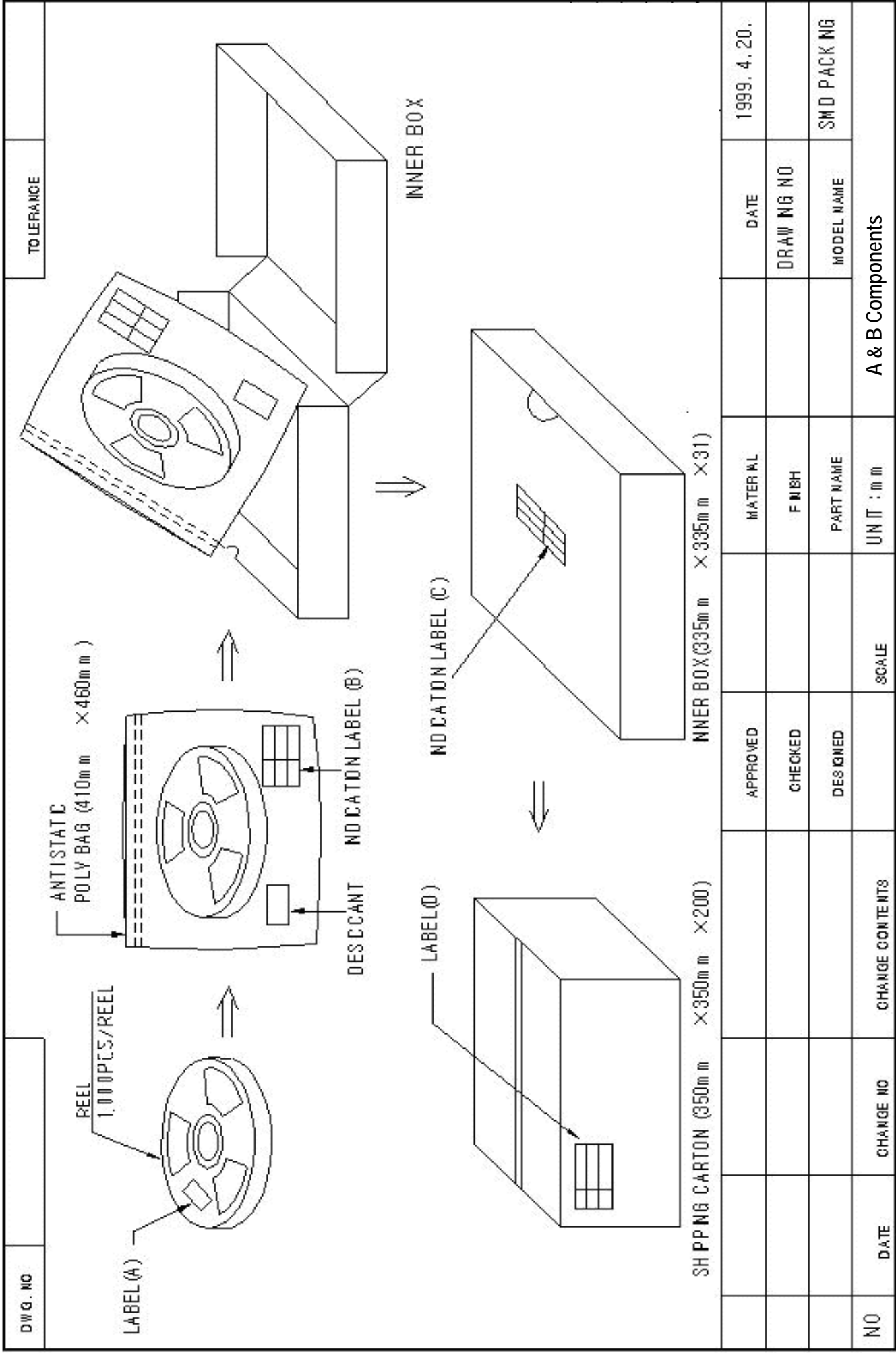
3. IR REFLOW OVEN TEMPERATURE PROFILE



DWG. NO. \_\_\_\_\_ TO LERANCE \_\_\_\_\_



APPROVED	MATERIAL	DATE	1999 3 15
CHECKED	FINISH	DRAWING NO	
DESIGNED	MODEL NAME	AD-1004-BZ	
CHANGE CONTENTS	UNIT : mm	A & B Components	
CHANGE NO	SCALE		
DATE			
NO			



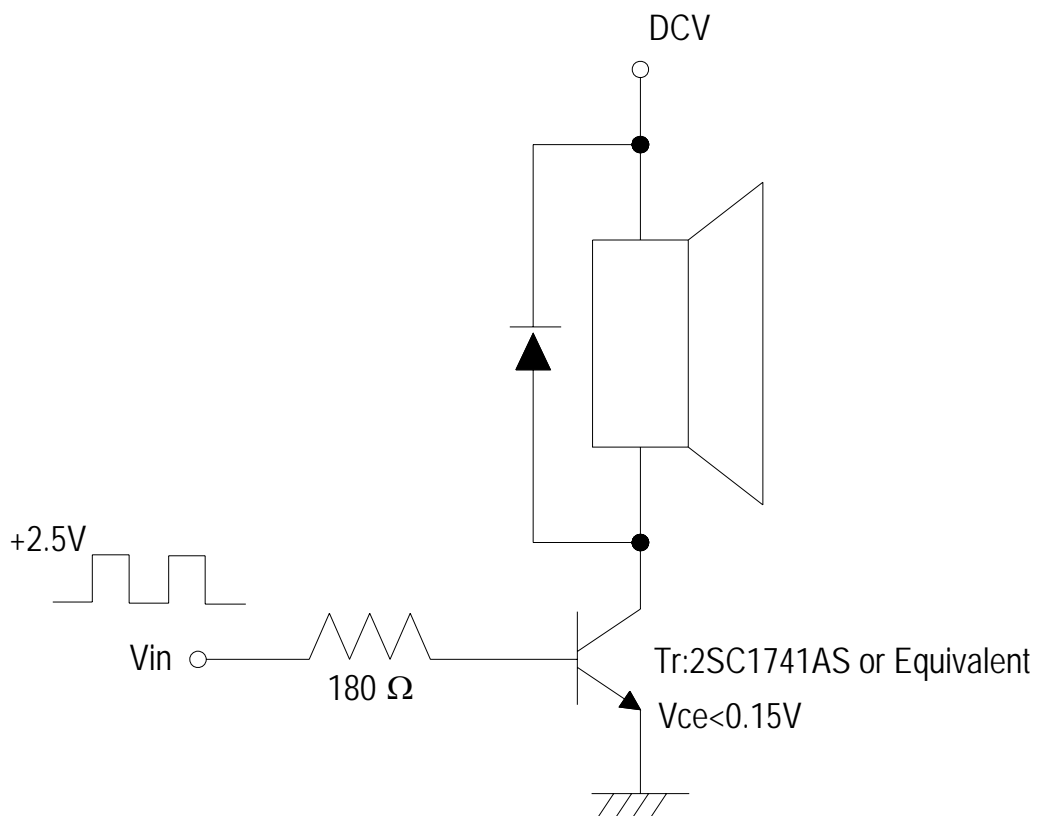
DWG. NO

TOLERANCE

APPROVED	MATERIAL	DATE	1999. 4. 20.
CHECKED	FINISH	DRAWING NO	
DESIGNED	PART NAME	MODEL NAME	SMD PACKING
CHANGE CONTENTS	SCALE	UNIT : mm	A & B Components
CHANGE NO			
DATE			



## STANDARD DRIVE CIRCUIT



## STANDARD TEST FIXTURE

