

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	MAGNETIC BUZZER
Part No.	AD-1403-CZ
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

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AD-1403-CZ

■ FEATURES

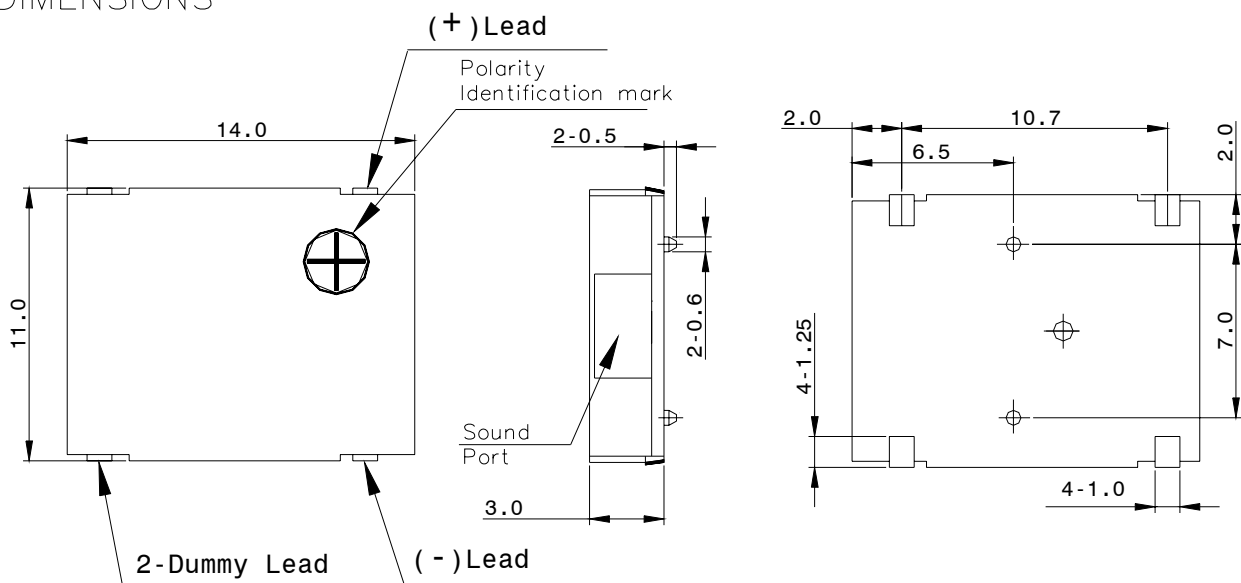
- Compact
- Small and slim size of 11.0mmW × 14.0mmL × 3.0mmH
- Low profile design
- For reflow process
- Tape and reel packing

■ SPECIFICATIONS

TYPE	UNIT	AD-1403-CZ
Rated voltage	V_{P-P}	3.0
Operating voltage	V_{P-P}	3.0~4.5
● Rated current	mA	Max 80
Coil resistance	Ω	18 ± 2
● Sound output at 10cm	dB	Min87(Typ93)
Resonant frequency	Hz	2700
Operating temperature	°C	-20 to +70
Storage temperature	°C	-55 to +85
Weight	g	Max 1.0

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

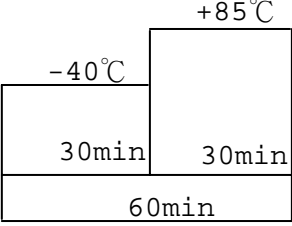
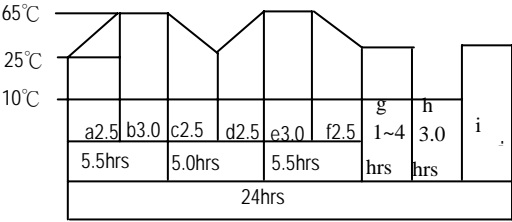
■ DIMENSIONS



unit :
mm

Electro - mechanical audio transducers

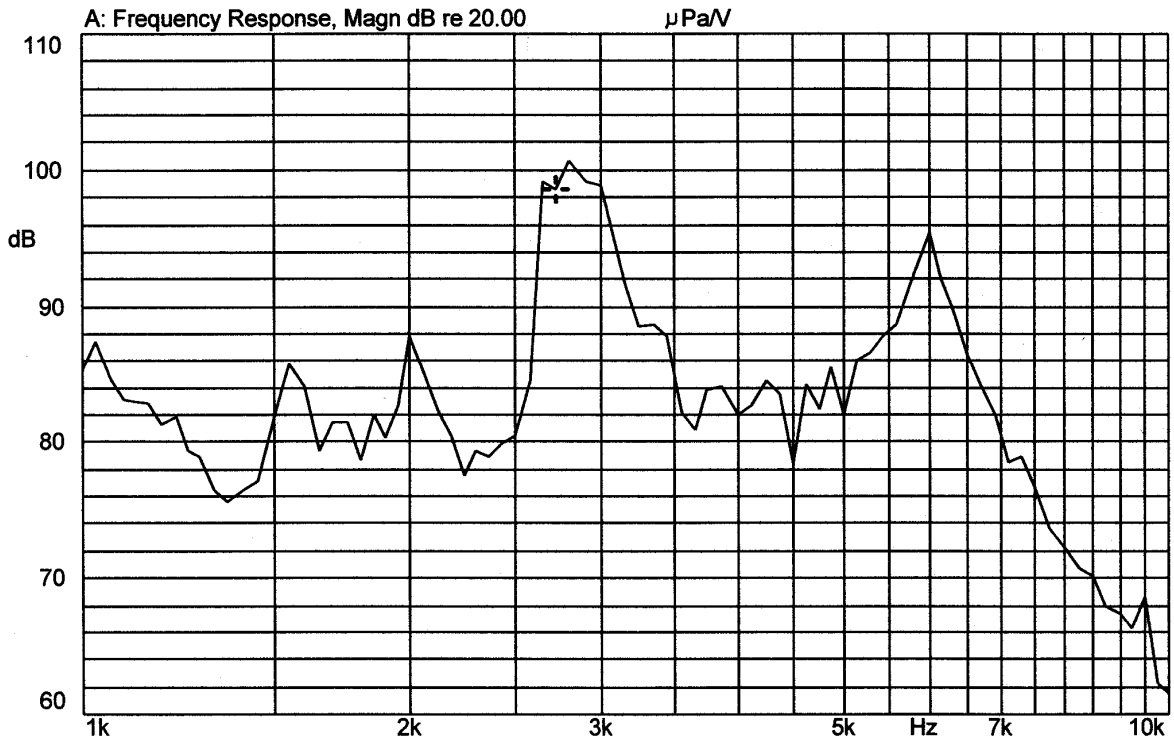
■ RELIABILITY

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	The part shall be subjected to 5 cycles One cycle shall consist of 	
4	Temp / Humidity cycle	The part shall be subjected to 10cycles One cycle shall be 24 hours and consist of  <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 3Vp-p Squarewave 1/2duty 2700Hz.	
6	High temperature	The part shall be subjected to 240 hours at +70°C with 4.5V, 2700Hz applied.	
7	Low temperature	The part shall be subjected to 240 hours at -30°C with 3.0V, 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 ± 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

AD-1403-CZ
X:2.7200kHz Y:98.63dB ZA:Live Curve SSR T. RMS



Mode: SSR



◎ SOLDERING PROFILE

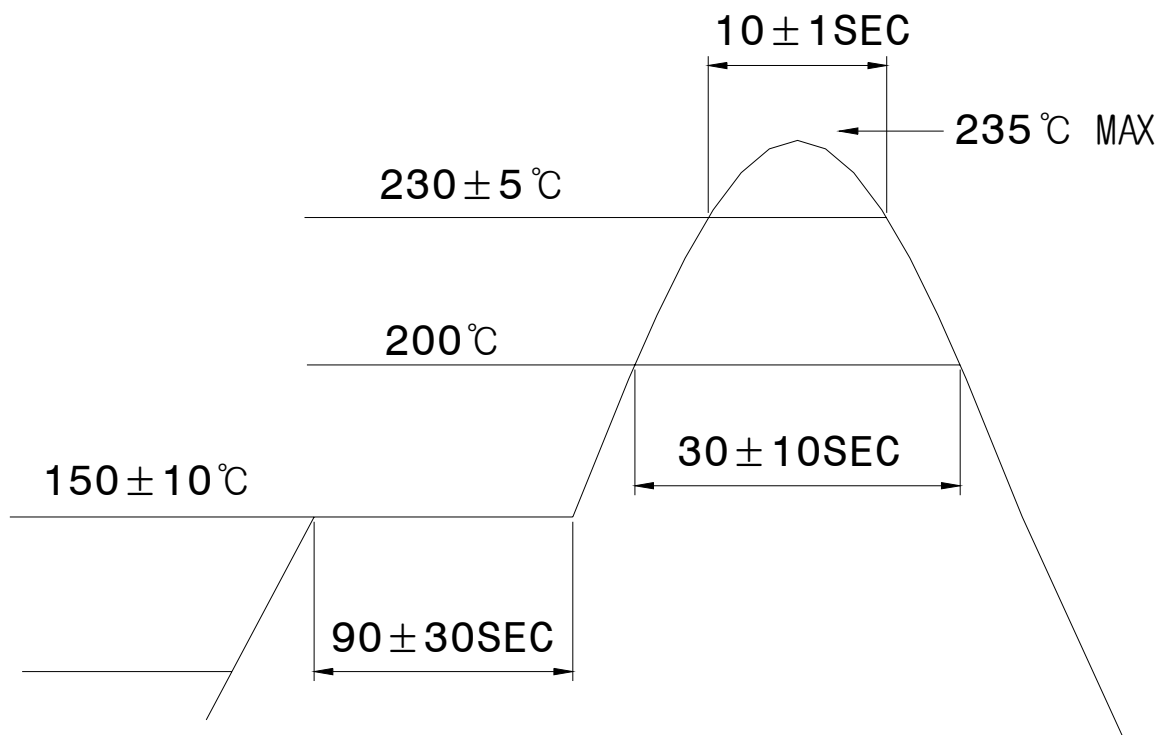
1. TERMINAL SOLDERING TEMPERATURE

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

2. SOLDERING TIME

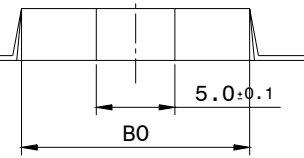
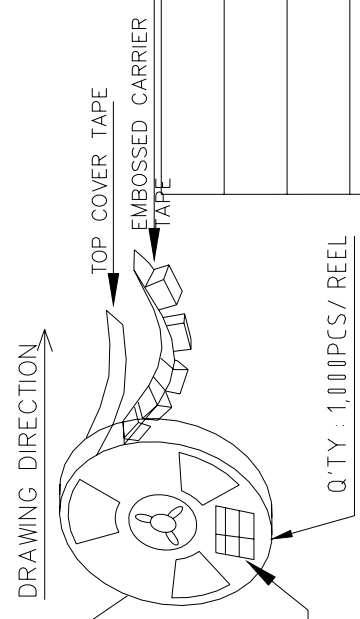
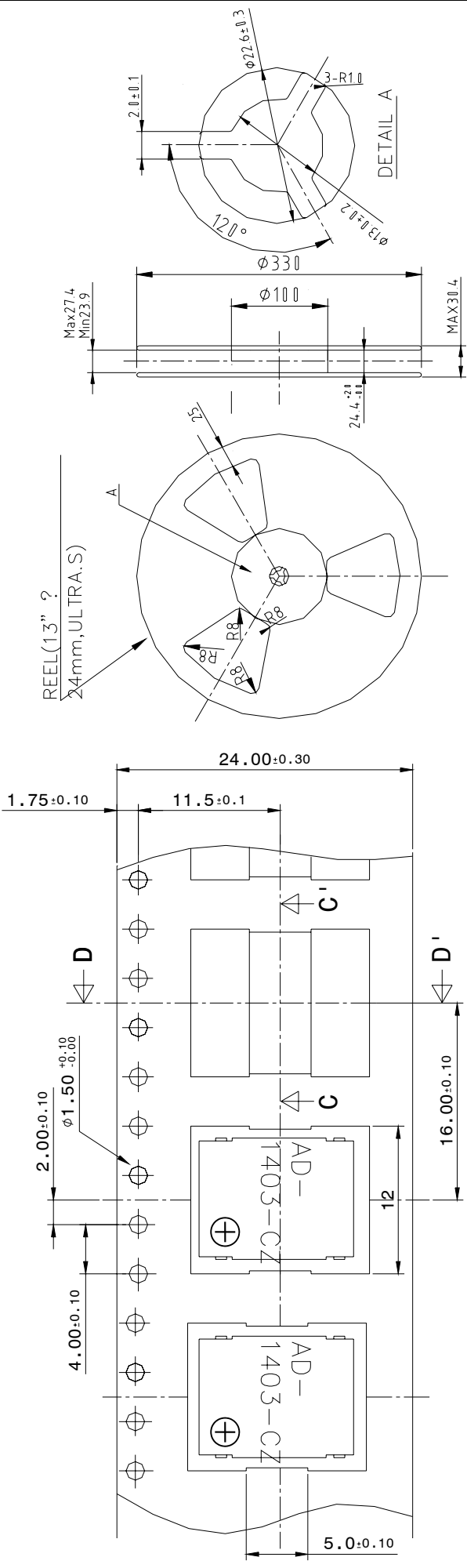
: $2 \pm 0.5\text{SEC}$

3. IR REFLOW OVEN TEMPERATURE PROFILE



DWG. NO _____ TOLERANCE _____

PROGRESSIVE DIRECTION



DETAIL C-C'

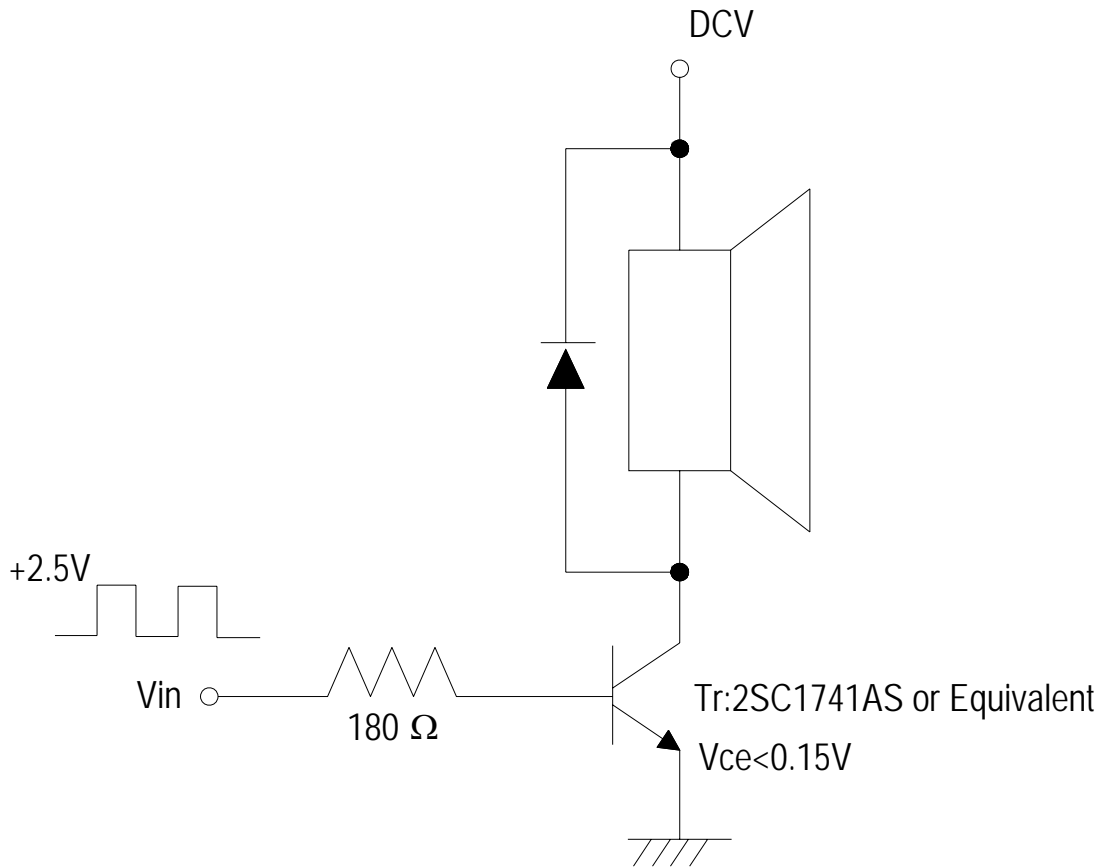


DETAIL D-D'

- A0 : 12.00±0.10
- A1 : 11.50±0.10
- B0 : 14.50±0.10
- K0 : 3.30±0.10

APPROVED	P.S	DATE	2000.01.26
CHECKED	FINISH	DRAWING NO	
DESIGNED	PART NAME	MODEL NAME	AD-1403-CZ
SCALE	UNIT : mm	REEL PACKING	ADVANCED ACOUSTIC TECHNOLOGY CORP.
CHANGE NO	CHANGE CONTENTS		
NO	DATE		

TANDARD DRIVE CIRCUIT



STANDARD TEST FIXTURE

