SPECIFICATION FOR APPROVAL

Product	MAGNETIC BUZZER
Part No.	AD-8504-EZ4
Customer	
Approval	

Approved By	Checked By	Made By



A & B Components

http://www.speaker-tw.com

AD-8504-EZ4

■ FEATURES

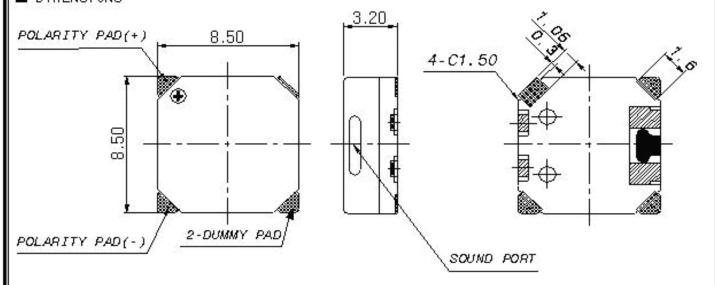
- Compact Small and slim size of 8.5mm₩ × 8.5mmL × 3.2mmH
- Low profile design
- For reflow process
- Side sound port
- Tape and reel packing

■ SPECIFICATIONS

TYPE	UNIT	AD-8504-EZ4
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 91)
Resonant frequency	Hz	3100
Operating temperature	°C	-30 to +70
Storage temperature	r	-40 to +85
Weight	g	0.5

● Value applying rated voltage(3100 Hz,1/2 duty, square wave)

DIMENSIONS



unit : mm

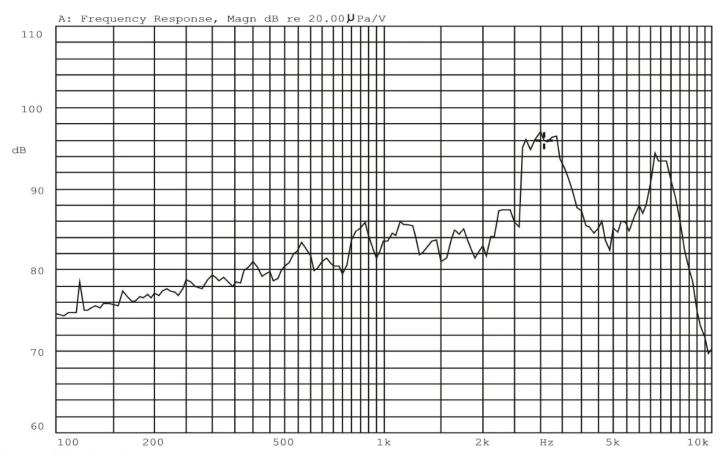
Electro - mechanical audio transducers

■ 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	I I ow 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	
		+85°C -40°C 30min 30min 60min	
4	Temp / Humidity cycle	The part shall be subjected to 10cycles One cycle shall be 24 hours and consist of 65°C 25°C 10°C a2.5 b3.0 c2.5 d2.5 e3.0 f2.5 g h l-4 3.0 hrs hrs 5.5hrs 5.0hrs 5.5hrs hrs hrs 2 4hrs	
		a,b,d,e,g,h,i : 90~98%RH c,f : 80~98%RH	
5	Operating life	Driving the sounder at25±10°C for 240hrs input 3.6Vp-p Square wave 1/2duty 3100Hz.	
6	High temperature	The part shall be subjected to 240 hours at +70°C with 3.6V, 3100Hz applied.	
7	I ow temperature	The part shall be subjected to 240 hours at -30°C with 3.6V, 3100Hz 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)			
1(Free drop	The part shall be dropped freely from a height of 100cm onto concrete 1 time in 6 axes. (total 6 times)			
1 ⁻	Solder ability	The part leads shall be immersed in molten solder maintained at $235\pm5^{\circ}$ 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:3.0700kHz *Y:95.90dB ZA:Live Curve SSR T. RMS



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2.54 3-2.16

2.54

9.53 8.5

5.21

RECOMMENDED LAND PATTERN DIMENSIONS

9.63

5.21 8.5 MCDEL:AD-8504-CZ4 AD-8504-CX4

SOLDERING PROFILE

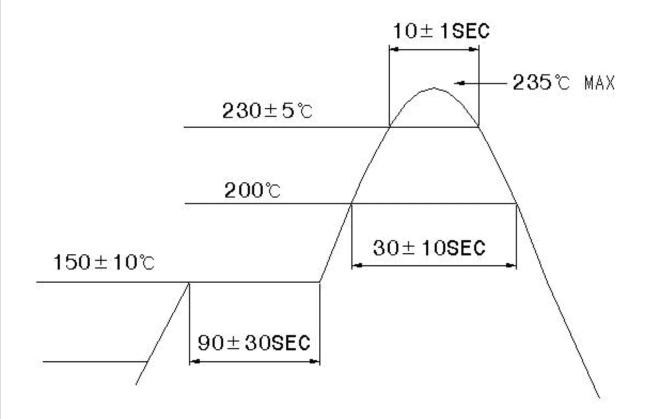
1.TERMINAL SOLDERING TEMPERATURE

: 235 ± 5°

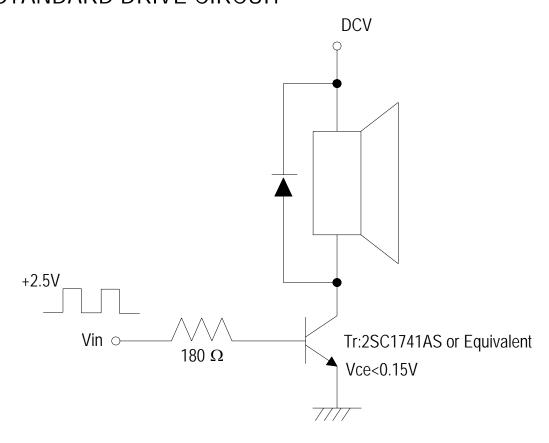
2.SOLDERING TIME

 $: 2 \pm 0.5$ SEC

3.IR REFLOW OVEN TEMPERATURE PROFILE



STANDARD DRIVE CIRCUIT



STANDARD TEST FIXTURE

