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# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER(SELF DRIVER)
Part No.	AZ-2835S-WJ
Customer Approval	

Approved By	Checked By	Made By



**A & B Components**

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

# 1. Specifications

AZ-2835S-WJ (RoHS)

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12.0	
02	Operating Voltage	VDC	4.0 ~ 14.0	
03	Rated Current	mA(Max)	15	At 12VDC
04	Sound Output	dBA(Min)	88	At 12DC / 30cm
05	Resonant Frequency	Hz	3500 ± 500	
06	Tone Nature		FAST PULSE	3.0 ± 30% Hz
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-30 ~ +70	
09	Weight	g	15 ± 1.0	

## 2. Measuring Method

### 2-1. Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 25% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

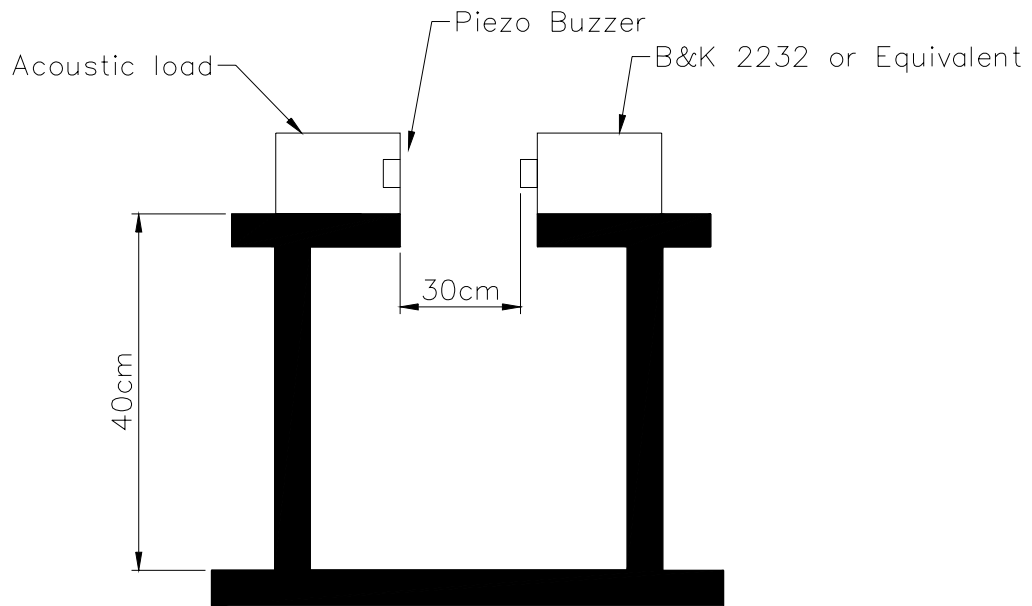
#### JUDGEMENT

Temperature : 20±3°C

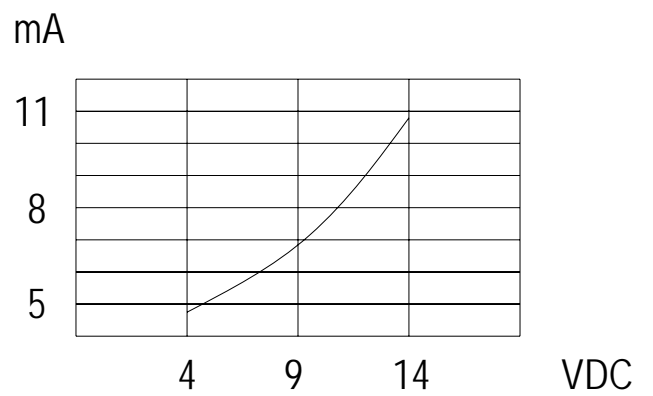
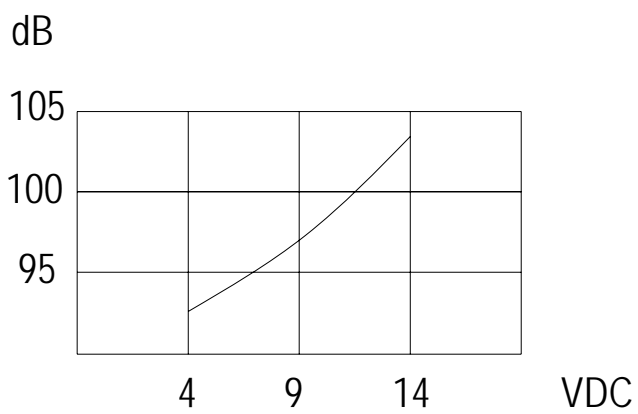
Relative humidity : 60% ~ 70%,

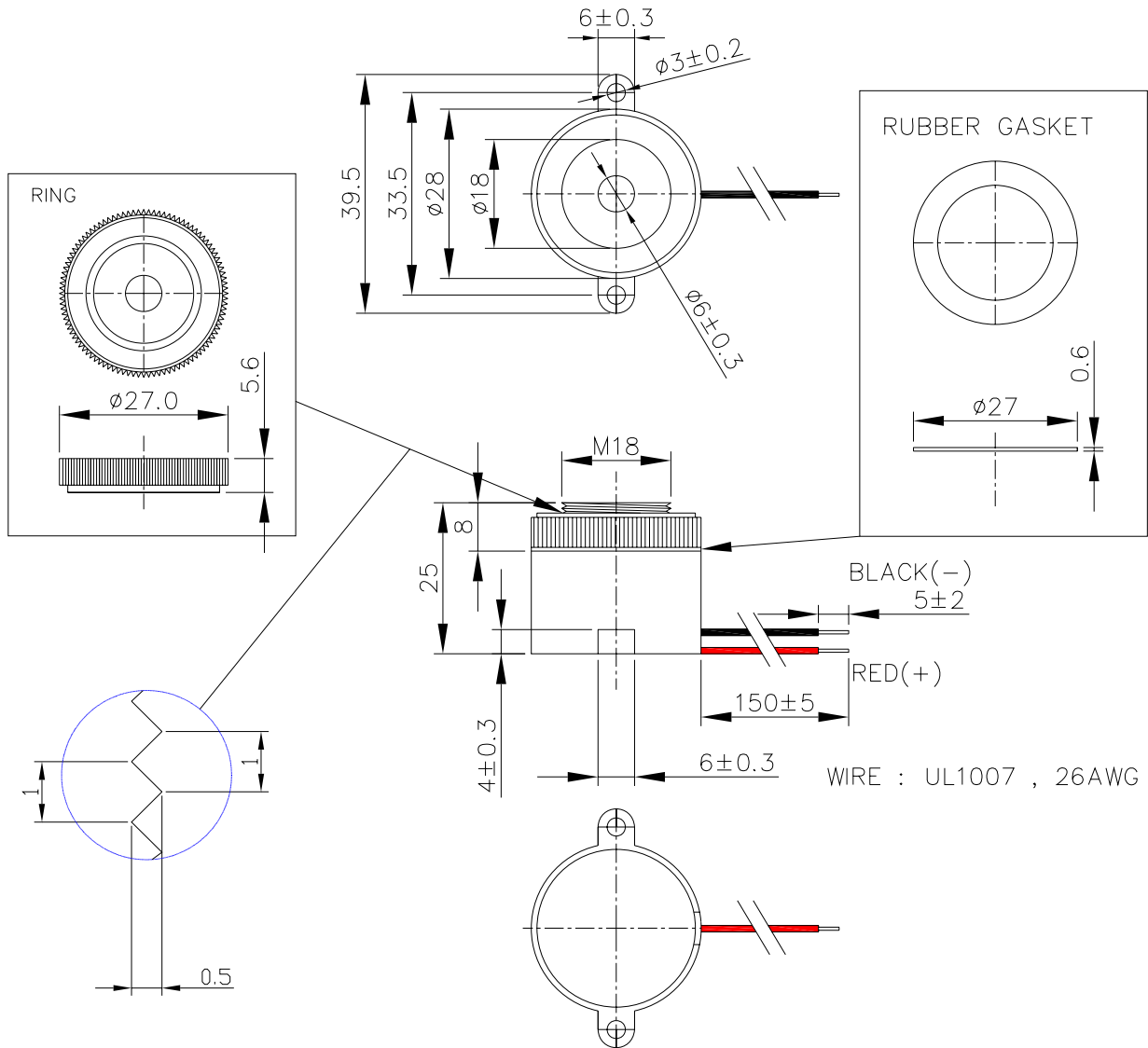
Atmospheric pressure : 860mbar to 1060mbar

## 2-2. Standard Test Fixture



## 2-3. Characteristic Curve



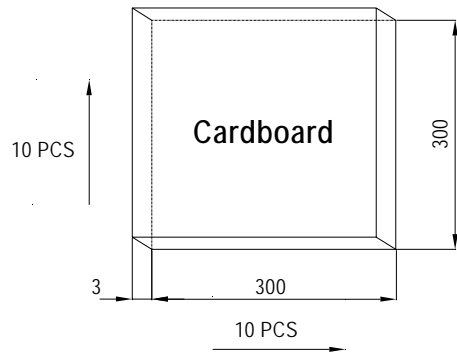


RoHS

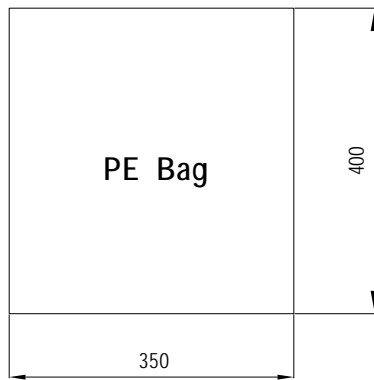
TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Richard</i> 2008-09-18	SCALE: 1:1	SHEET: 1 of 1
PART NO. <i>AZ-2835S-WJ</i>		DESIGNED: <i>R&amp;D Dep.</i>	UNITS: <i>mm</i>	
DWG NO. <i>AZ-08091802</i>		CHECKED:	TOLERANCE $\pm 0.5$	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL $\pm$ *** TWO PLACE DECIMAL $\pm$ *** THREE PLACE DECIMAL $\pm$ ***	
REV	1	MATERIAL: <i>ABS</i>		

*A & B Components*

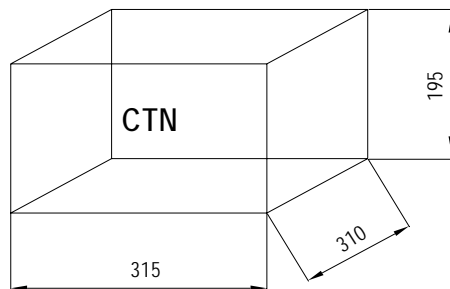
**1. 10 X 10 PCS = 100PCS / board**



**2. 100 PCS + 1 board / bag = 1 Set**



**3. 500 PCS / CTN = 5 Set / CTN**

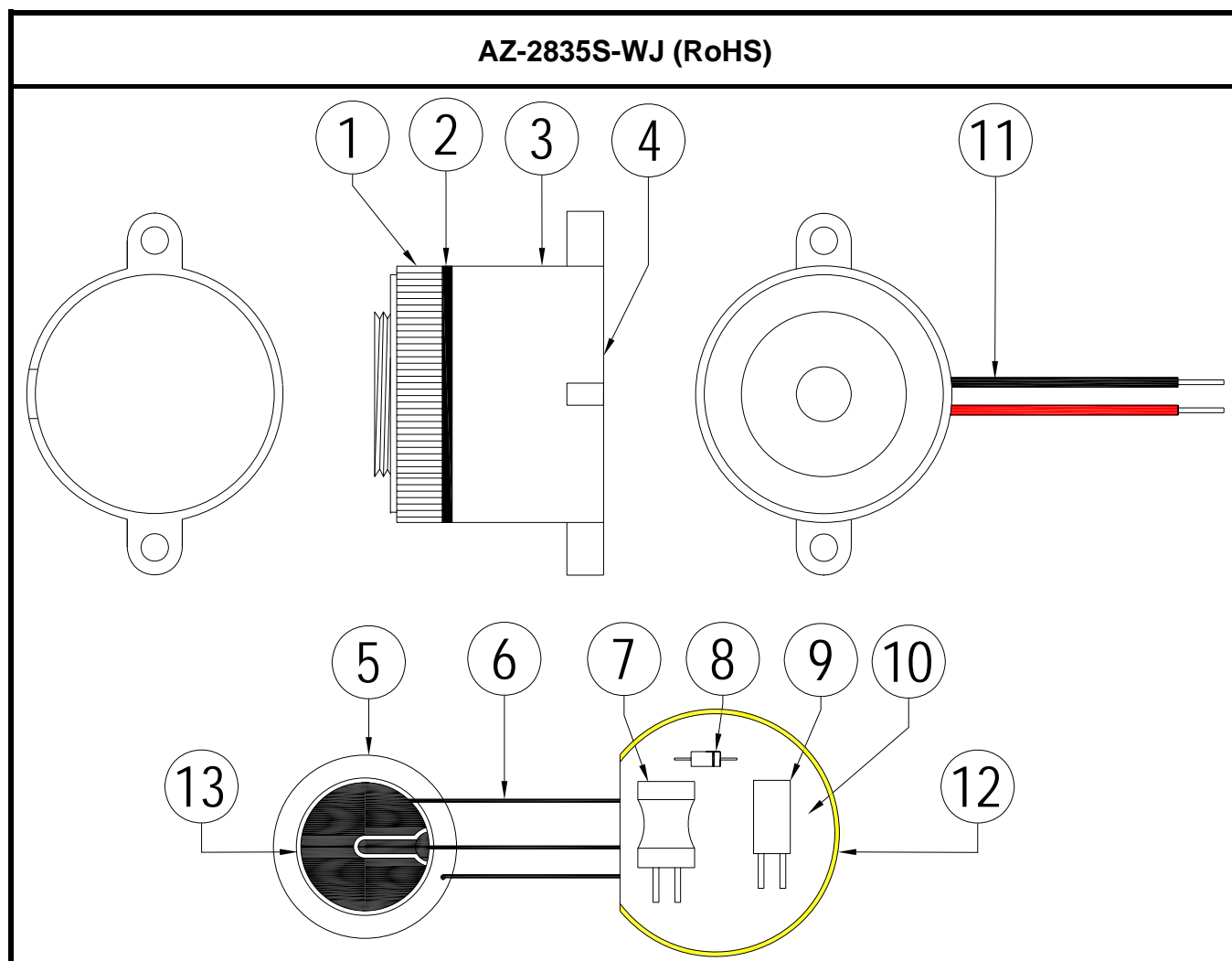


RoHS

TITLE: <i>PACKING</i>	DRAWN: <i>Richard</i> 2008-09-16	SCALE: 1:1	SHEET: 1 : 1
PART NO. AZ-2835S-WJ	DESIGNED: R & D DEP.	UNITS: mm	
DWG NO.	1	TOLERANCE ±	
	REV	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
	MATERIAL: *****		

A & B Components

## 5.CONFIGURATION LIST



NO.	COMPONENTS	MATERIAL	REMARK
01	Cap	Black ABS	
02	Washer	Black Rubber	
03	Housing	Black ABS	
04	Cover	Black ABS	
05	Piezo element	Brass	
06	Lead Wire	Brass wire	
07	Inductance		
08	Diode		
09	Capacitance		
10	PCB		
11	Lead Wire	UL1007 AWG26 (Red & Black)	
12	Bond	Yellow Glue	
13	Adhesive	White gum resin	Back of NO.5

## 6. Reliability Test

Item		Test conditions	Evaluation standard
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 70°C for 96 hours.	After the test the part shall meet specifications without Any degradation in appearance and performance except S.P.L S.P.L shall be 80dB or more.
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -30°C for 96 hours.	
03	Temp. cycle	<p>Make this test for 5 cycle without applying power, then expose to the room temperature for 2 hours</p> <p>The diagram illustrates a temperature cycle with four distinct levels. The first level is at -30°C for a duration of 30 minutes. The second level is at +20°C for 15 minutes. The third level is at +70°C for 30 minutes. The fourth level is at +20°C for 15 minutes. The transitions between levels are indicated by vertical lines.</p>	
04	Temp./Humidity cycle	The part shall be subjected with 90~95% R.H at +40°C for 48 hours.	
05	Free drop	The part only shall be dropped from a height of 75cm onto a 40mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	
06	Lead Strength	Pull lead with a force of 10N,on the direction of the lead axis for 10 :10±1 sec	
07	Vibration	<p>The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute.</p> <p>Total peak amplitude shall be 1.52mm (9.3G). The vibration test shall consist of 2 hours per plane in each three mutually perpendicular planes for a total time of 6 hours.</p>	

## SOLDERING CONDITION

Recommend using constant branding iron in **30W**, and in temperature range **380±10°C**.

Soldering time 2 seconds.