MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	PIEZO BUZZER(SELF DRIVER)
Part No.	AZ-1540S-P-LF (RoHS)
Customer Approval	

Approved By	Checked By	Made By
工程部 王台平 JAN-02-2007	工程部 劉民祥 JAN-02-2007	工程部 許俊程 JAN-02-2007

ADVANCED ACOUSTIC TECHNOLOGY CORP.

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http://www.aatc.com.tw

File Name:

1.Specifications

AZ-1540S-P-LF

Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12	
02	Operating Voltage	VDC	6 ~ 18	
03	Rated Current (Max)	mA	30	At 12 VDC
04	Min Sound Output	dBA	90	At 12 VDC / 10cm
05	Resonant Frequency	Hz	4000±500	
06	Tone Nature	Single		
07	Operating Temp.	℃	-30 ~ +75	
08	Storage Temp.	℃	-40 ~ +85	
09	Weight	g	2.5	

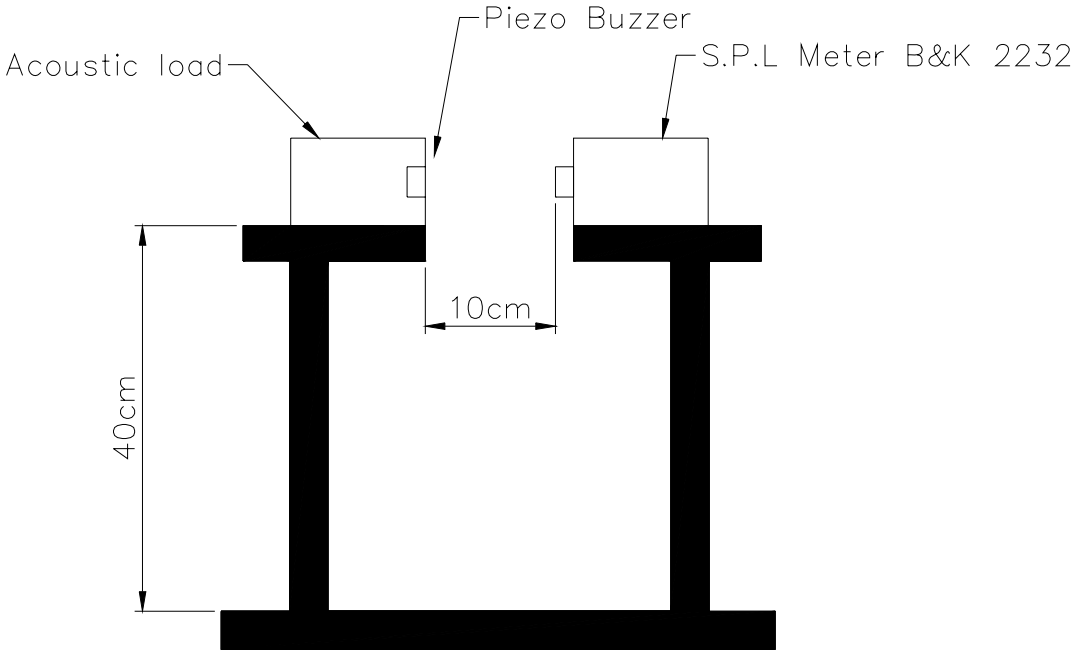
2.Measuring Method

Test Condition

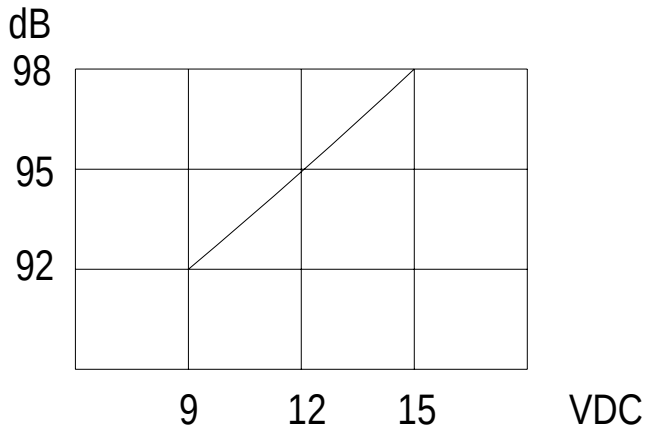
STANDARD
Temperature : 15 ~ 35℃
Relative humidity : 25% ~ 85%,
Atmospheric pressure : 860mbar to 1060mbar.

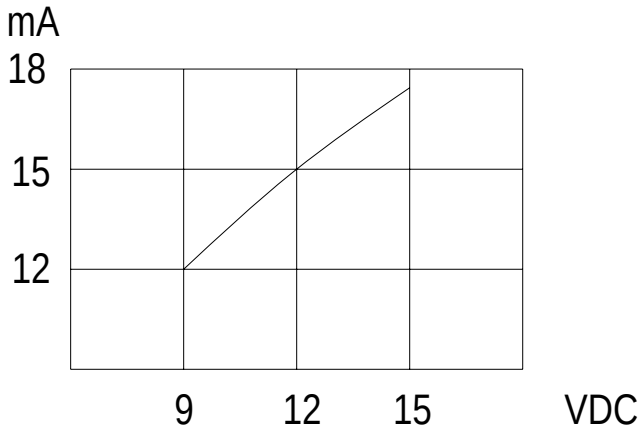
JUDGEMENT
Temperature : 20±3℃
Relative humidity : 60% ~ 70%,
Atmospheric pressure : 860mbar to 1060mbar

Standard Test Fixture

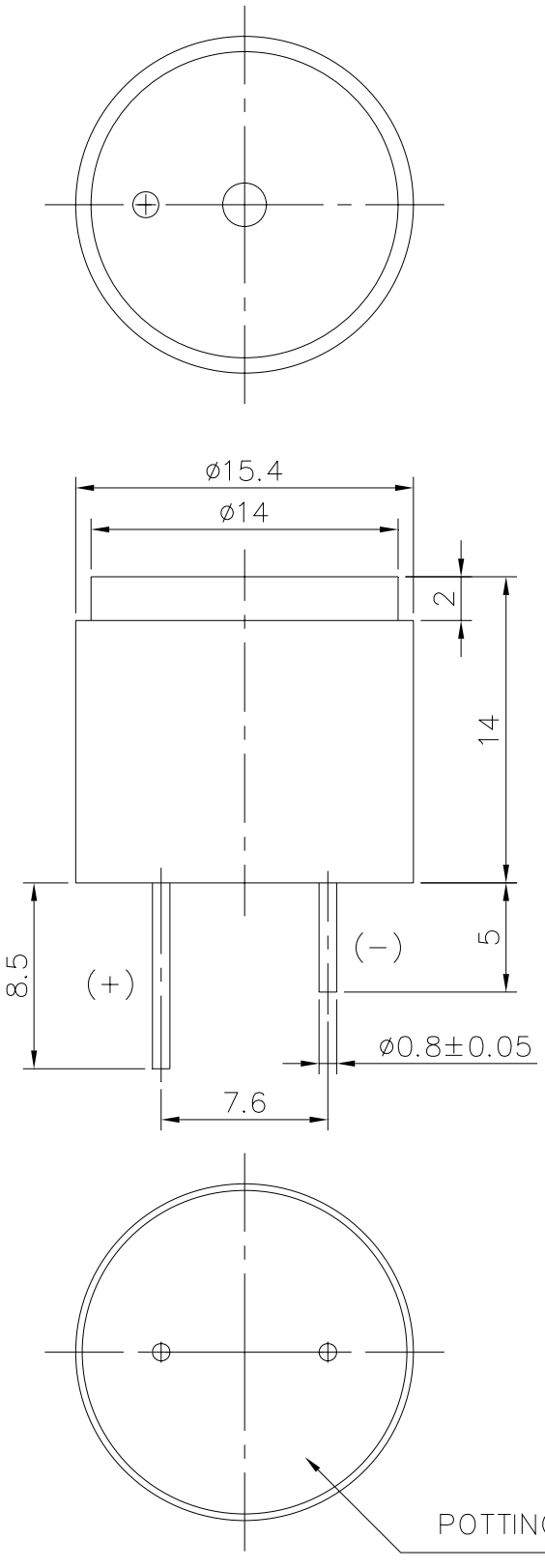


Frequency Response Curve





REV NO.	REVISION NOTE	APPROVAL	DATE



TITLE: PIEZO BUZZER INDICATOR		DRAWN: JOHN 01/03/2007	SCALE: 3:1	SHEET: 1 : 1
PART NO. AZ-1540S-P-LF	1	DESIGNED: R & D OF AAT	UNITS: mm	
		CHECKED:	TOLERANCE ± 0.5	
DWG NO. DTP-1011		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± *** TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	
	REV	MATERIAL: ABS		

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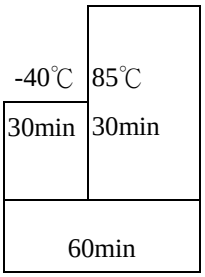
4.RELIABILITY TEST

Item		Test conditions	Evaluation standard
01	High temp.Storage life	The part shall be capable of withstanding a storage Temperature of 85℃ 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 74dB or more.
02	Low temp.Storage life	The part shall be capable of withstanding a storage Temperature of -40℃ for 96 hours.	
03	Temp. cycle	The part shall be subjected 5 cycles. One cycle shall consist of;  	
04	Temp./Humidity cycle	The part shall be subjected with 90~95% R.H at +40℃ for 96 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	The part shall be subjected to a vibration cycle of 10Hz to 55Hz to 10Hz in a period of 1 minute. 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.	

SOLDERING CONDITION

Recommend using constant branding iron in 30W, and in temperature range 350±10°C.
Soldering time 2 seconds.