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# SPECIFICATION FOR APPROVAL

Product	PIEZO BUZZER(SELF DRIVER)
Part No.	AZ-4228S-C5
Customer Approval	

Approved By	Checked By	Made By



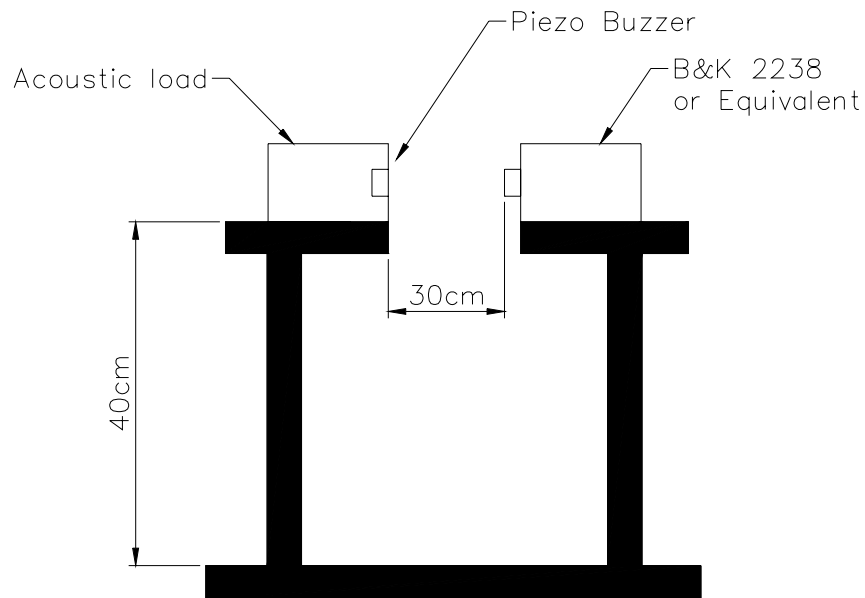
**A & B Components**

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

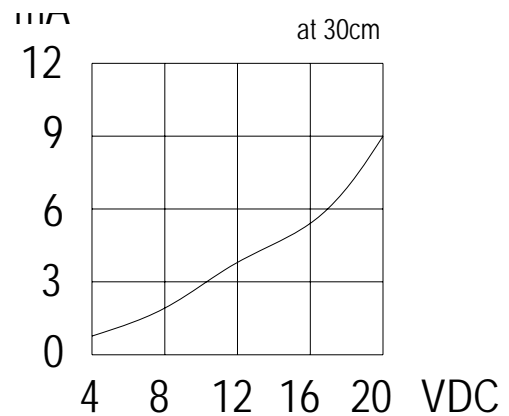
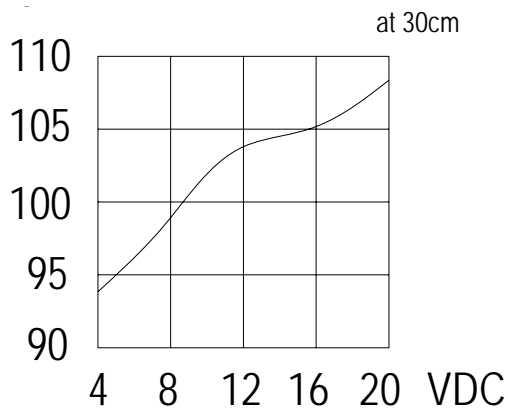
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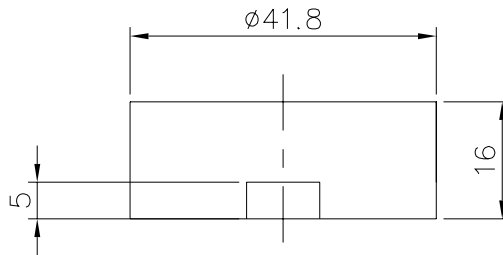
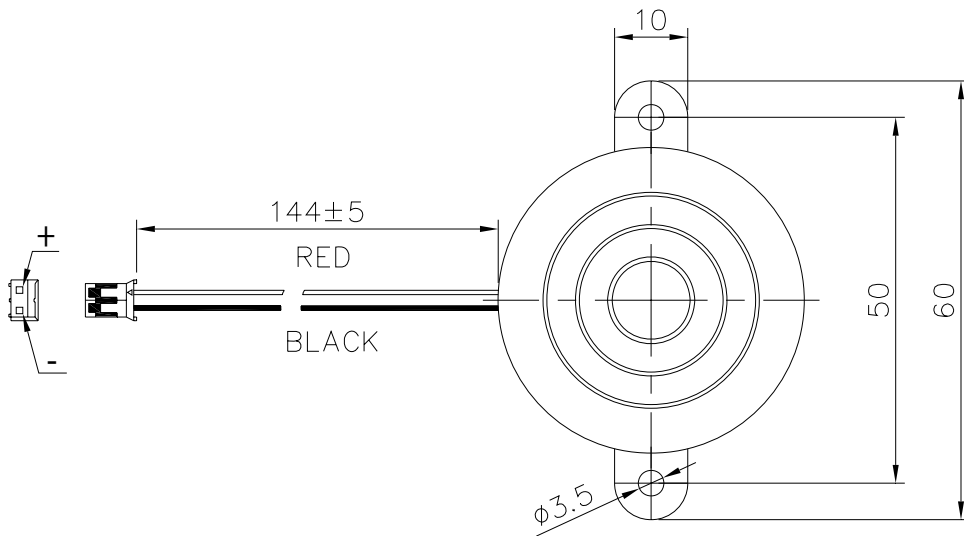
Items		Units	Specifications	Conditions
01	Rated Voltage	VDC	12.0	
02	Operating Voltage	VDC(Max)	4 - 20	
03	Rated Current (Max)	mA	9	At 12VDC
04	Min Sound Output	dBA	96	At 12VDC / 30cm
05	Resonant Frequency	Hz	2800±500	
06	Tone Nature	Single		
07	Operating Temp.	°C	-20 ~ +60	
08	Storage Temp.	°C	-20 ~ +70	
09	Weight	g	12	

## STANDARD TEST FIXTURE



## Characteristic





WIRE: UL1007, AWG24.

CONNECTOR: JST PHR-2 COMPATIBLE.

HOUSING JST PH 2.0, 2PIN.

TITLE: <i>PIEZO BUZZER</i>		DRAWN: <i>Richard</i> 12/24/2003	SCALE: 1:1	SHEET: 1 : 1
PART NO. <i>AZ-4228S-C5</i>		DESIGNED: <i>R &amp; D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>DTP-1030</i>		CHECKED:	TOLERANCE ± 0.3	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
REV		MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL ± ***	
			TWO PLACE DECIMAL ± ***	
			THREE PLACE DECIMAL ± ***	

*A & B Components*

# RELIABILITY TEST

## AZ-4228S-C5

Item	Conditions	Evaluation standard
01 Low Temp. Storage Test	A°C±2°C ,240Hr	(S.P.L)Test before numerical ±10dB *wrong (Frequency)Test before numerical ±10% (Current)Test before numerical ±10% (No crake is allowed on the part surface after Free drop test ) ● After the test ,the part shall meet the specifications without any degradation in appearance and performance
02 High Temp.Storage Test	B°C±2°C RH50% ,240Hr	
03 Temp./Humidity Storage Test	40°C±2°C , RH90-95% 240Hr	
04 Thermal Shock Test	A°C±2°C (1Hr)→ ,20°C±2°C (1Hr) B°C±2°C (1Hr)→ ,20°C±2°C (1Hr)10 cycle	
05 Vibration Test	10-55Hz/1min amplitude1.5mm,X,Y,Z,3 directions	
06 Mechanical Shock Test	+100G,Sine wave, XYZ , 3 impacts per axis	
07 Free Drop Test	The part shall be dropped freely from a height of 75 cm onto concrete 1 time in 2 axes (total 4 times )	
08 Life Burning Test	The part shall be subjected to 1000 hrs in the room temp with rated voltage applied	
09 Lead Wire / Pin Pull Test	The Part checking standard : Following supplier's Spec. Finished-part checking Standard vertical Pull i)100g MIN 0.05mm Thickness of ceramic ii)300g MIN 0.1mm ≤ Thickness of ceramic b: Horizontal Pull i)700g MIN	

Remark : "A"means Storage low temp. "B"means Storage high temp