SPECIFICATION FOR APPROVAL

承　　认　　书

Description	:	**Magnetic Transducer**
Vender's Part No.	:	**HY09-5T**
Customer's. Part No.	:	
Serial No.	:	**HY-1532**
Version No.	:	**1.1**

CUSTOMER'S APPROVED SIGNATURE		

Approved By	Checked By	Made By
QIAN WANJIN	SHI JIANQIANG	**ZHU** **2010.04.02**

HYDZ® 兴化市华宇电子有限公司

XINGHUA HUAYU ELECTRONICS CO.,LTD

地址：江苏省兴化市陈堡工业区人民路 1 号

电话：0523-83723110 传真：0523-83723118

邮箱：China_hydz@163.com

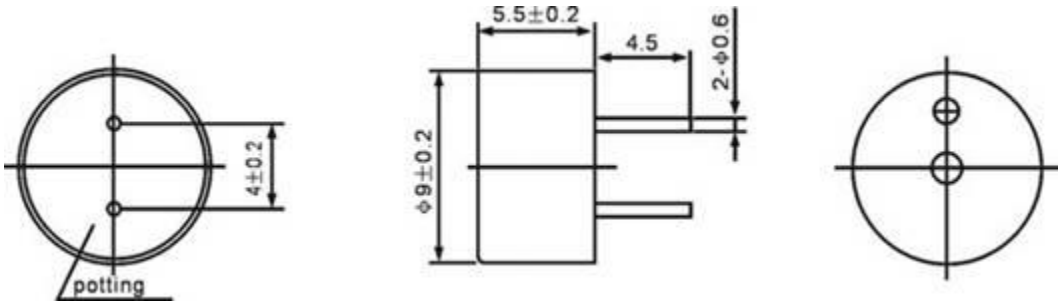
A. SCOPE

This specification applies magnetic transducer, **HY09-5T**

B. SPECIFICATION

No.	Item	Unit	HY09-5TAE	HY09-5TBE	HY09-5TCE	Condition
1	Rated Voltage	Vo-p	1.5	3	5	
2	Operating Voltage	Vo-p	1 ~ 3	2~4	4~6	
3	Coil Resistance	Ω	5.5±1	16±3	42±4	
4	Oscillation Frequency	Hz	2731			Vo-p=1/2duty , square wave
5	Current Consumption	mA	MAX. 80			at Rated Voltage
6	Sound Pressure Level	dB	MIN. 85			at 10cm at Rated Voltage
7	Operating Temperature	℃	-20 ~ +70			
8	Storage Temperature	℃	-30 ~ +80			
9	Dimension	mm	Φ9 x H5.5			See appearance drawing
10	Weight (MAX)	gram	1.0			
11	Housing Material		PPO(Black)			
12	Leading Pin		Tin Plated Brass(Sn)			See appearance drawing
13	Environmental Protection Regulation		RoHS			

C. APPEARANCE DRAWING Tol : ± 0.5 Unit: mm



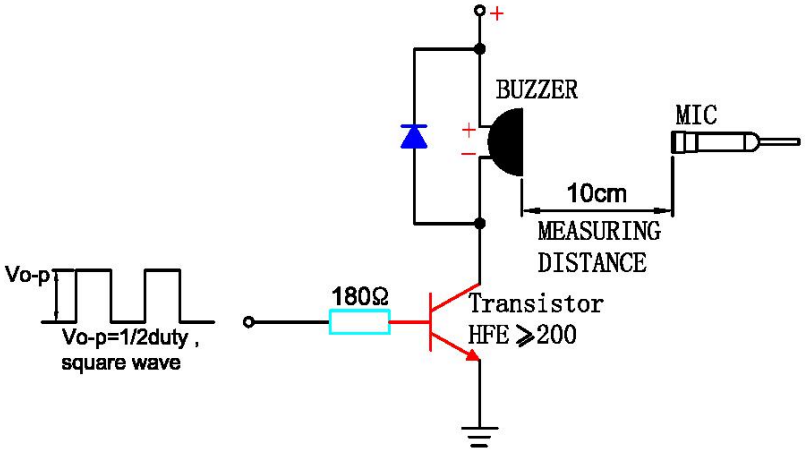
D.TESTING METHOD

Standard Measurement conditions

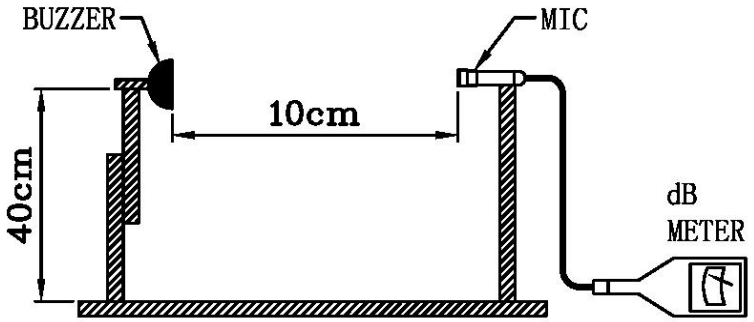
Temperature:25±2℃ Humidity:45-65%

Acoustic Characteristics:

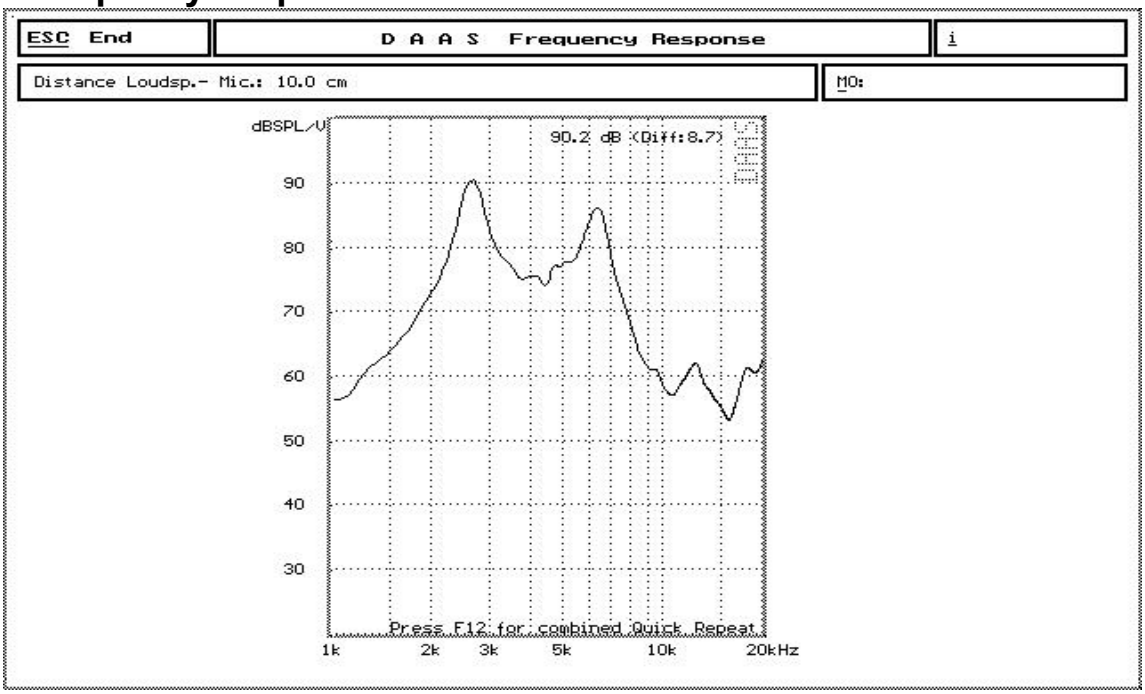
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below(Recommend Driving Circuit)



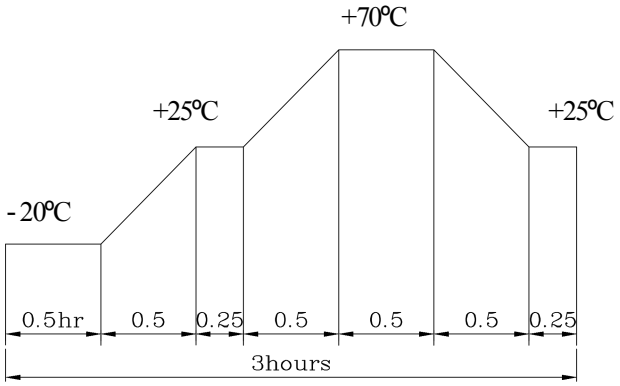
In the measuring test, buzzer is placed as follows:



E. Typical Frequency Response Curve



F. RELIABILITY TEST

NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 70 2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30 2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of:  Allowable variation of SPL after test: 10dB.
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: 10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 3 seconds and then immersed in solder bath of 260ºC 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

TEST CONDITION.

Standard Test Condition	:	a) Temperature : +5 ~ +35℃	b) Humidity : 45-85%	c) Pressure : 860-1060mbar
一般测试条件	:	a) 温度 : +5 ~ +35℃	b) 湿度 : 45-85%	c) 气压 : 860-1060mbar
Judgment Test Condition	:	a) Temperature : +25 ± 2℃	b) Humidity : 60-70%	c) Pressure : 860-1060mbar
争议时测试条件	:	a) 温度 : +25 ± 2℃	b) 湿度 : 60-70%	c) 气压 : 860-1060mbar