SPECIFICATION FOR APPROVAL 承 认 书

Description : Magnetic Transducer

Vender's Part No. : **HY12-P**

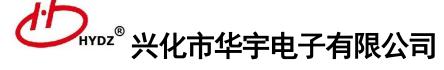
Customer's. Part No. :

Serial No. : HY-1532

Version No. : 1.1

CUSTOMER'S APPROVED SIGNATURE				

Approved By	Checked By	Made By
QIAN WANJIN	ZHANGZHIQIANG	ZHU 2010.04.02



XINGHUA HUAYU ELECTRONICS CO., LTD

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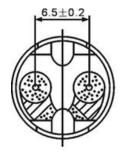
A. SCOPE

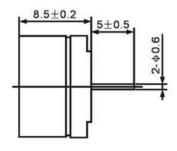
This specification applies magnetic transducer, HY12-P

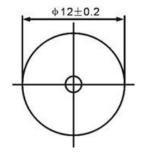
B. SPECIFICATION

No.	ltem	Unit	HY12-1P	HY12-2P	HY12-3P	Condition
1	Rated Voltage	Vo-p	3	5	12	
2	Operating Voltage	Vo-р	2~4	4~6	8~16	
3	Coil Resistance	Ω	16±1	42±3	80±4	
4	Oscillation Frequency	Hz	2048			Vo-p=1/2duty , square wave
5	Current Consumption	mA	MAX. 40			at Rated Voltage
6	Sound Pressure Level	dB	MIN. 85			at 10cm at Rated Voltage
7	Operating Temperature	$^{\circ}\!\mathbb{C}$	-20 ~ +70			
8	Storage Temperature	$^{\circ}\!\mathbb{C}$	-30 ~ +80			
9	Dimension	mm	Ф12 х Н8.5			See appearance drawing
10	Weight (MAX)	gram	2.0			
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







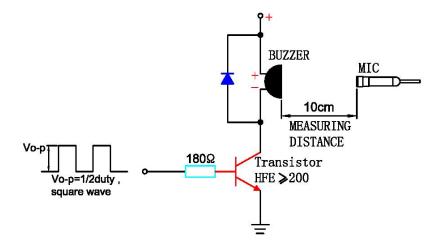
D.TESTING METHOD

Standard Measurement conditions

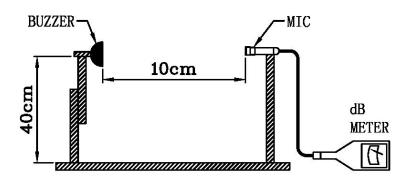
Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

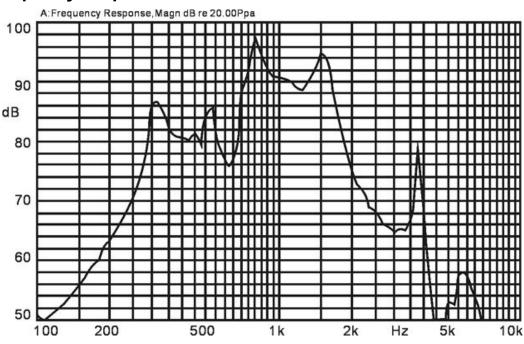
The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below(Recommend Driving Circuit)



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 2°C 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 2°C 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 2°C 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: +70°C +25°C -20°C -20°C -20°C -20°C -3hours 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 2 seconds and then immersed in solder bath of 250°C 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.