

MODE: P12NP42-S

1. Scope

This specification is applied to ACTIVE ELECTROMAGNETIC TRANSDUCER.

The products described below are used for sounder in various alarm systems.

2. Basic Condition

2.1 Operating Voltage: 1.0~2.0Vp-p

2.2 Operating temperature Range:-20~+70

2.3 Storage Temperature Range:-40~+80

3. Electrical Characteristics

3.1 Specification

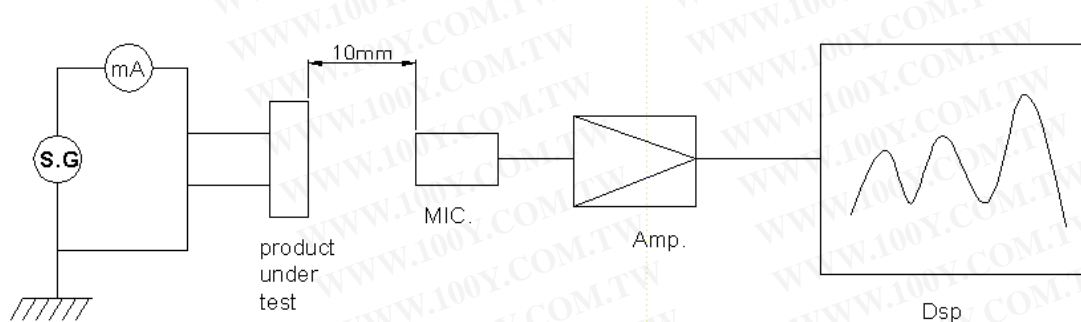
3.1.1 Output SPL: 82dB at 10cm,1.5Vp-p,2048Hz(± 200 Hz)

3.1.2 Consumption Current: 15.0mA:at 1.5Vp-p

3.1.3 Coil Resistance: 42 ± 6.0 .

3.2 Measuring Method

3.2.1 Measuring Circuit for SPL,Consumption Current and Osillation
Fequency.



Measuring Voltage :1.5Vp-p,2048Hz,Square Wave 1/2duty.

VDC: Power Supply, mA:Milliammeter

Amp:Amplifier

Mic:Measuring Condenser Microphone

DSP:Display Screen

Mic:+Amp.Can be replaced by a SPL meter.

3.2.2 Measuring Condition

Temperature:15—35

R.H.45—75%

3.2.3 Judgement Condition

Temperature:20 \pm 2

R.H.45—75%

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

4 Mechanical and Environment Characteristics.

	ITEM	TEST CONDITION AND REQUIREMENT
4.1	High Temperature Test(Storage)	After being placed in a chamber with 55 ± 2 for 4 hours and then being placed in natural condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$
4.2	Low Temperature Test(Storage)	After being placed in a chamber with -40 ± 2 for 4 hours and then being placed in natural condition for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$
4.3	Humidity Test	After being placed in a chamber at 90-95%R.H.at 40 ± 2 For 24 hours and then being placed in natural condition for 4 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$
4.4	Temperature Cycle Test	After being placed in a chamber at -40 ± 2 for 30minutes, Products shall be placed at room temperature(± 20).After 15 minutes at this temperature,products shall be placed in a chamber at $+55\pm 2$.After 30 minutes at this temperature, products shall be return to room temperature($+20$)for15 minutes.After 5 above cycles,products shall be measured after being placed in natural condition for 4 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$
4.5	Drop Test	Drop on a hard wood board of 5cm thinck,any directions,6 times,at the height of 80cm. Allowable variation of SPL after test: $\pm 10\text{dB}$
4.6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band ofvibration frequency to each of 3 perpendicular directions for 2 hours. Allowable variation of SPL after test: $\pm 10\text{dB}$
4.7	Soldering Heat Resistance	Lead terminals are immersed up to 1.5mm from products body in solder bath of $+260\pm 5$ for 60 ± 1 seconds,then placed in natural condition for 4 hours Allowable variation of SPL after test: $\pm 10\text{dB}$
4.8	Solderability Test	Lead terminals are immersed in rosin for5 seconds and then Immersed in solder bath of $+230\pm 5$ for 3 ± 0.5 seconds 90%min.lead terminals shall be wet with solde (Except the edge of terminals
4.9	Terminal Strength Pulling Test	The force of 9.8N is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

5. Remarks

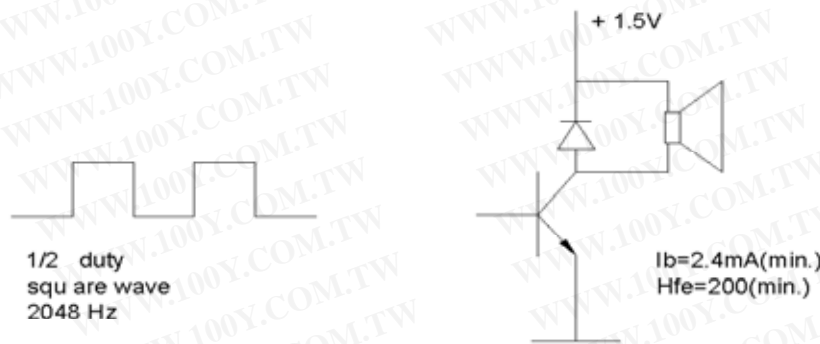
5.1 Please pay attention to connect the hot end of your signal to the “ + ” terminal of out product.

5.2 Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by an abnormality or failure related to our product.

5.3 The product may be damaged if mechanical stress over this specification is applied

5.4 Please pay attention to protect operating circuit from surge voltage provided by something of force such as falling, shock and temperature changing.

5.5 The recommendation driving circuit is as below:



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

5.6 In case of using solder iron for soldering, the temperature at the top of soldering irons should be kept less than +350 .Moreover the soldering time should be also kept with in 3 secnds.

5.7 This specification mentions the quality of the product as a single unit. Please insure the product is thoroughly evaluated in your application circuit.

5.8 Please return a copy of this specification after your signature of confirmation. In case of no return within three months from submission date, this specification should be treated as confirmed.

6. Dimensions

