

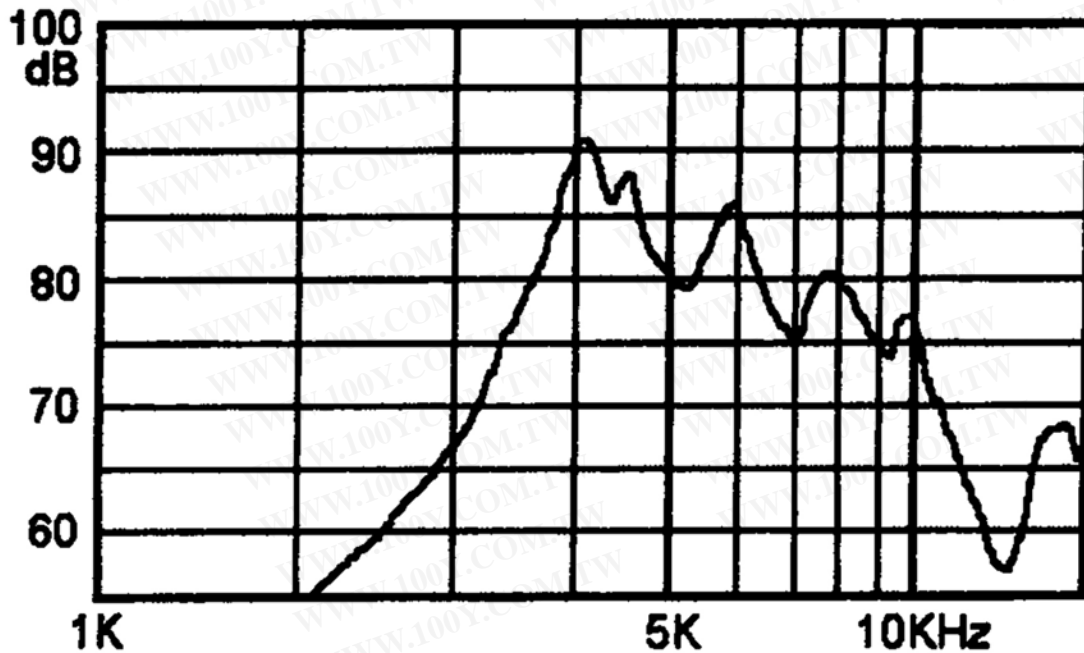
SPECIFICATION

Type : MRE-PT1770

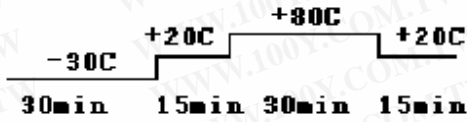
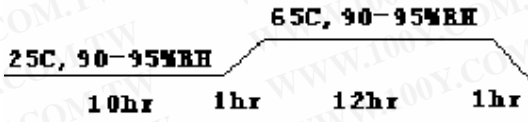
1. Description
Piezo transducer
2. Specifications

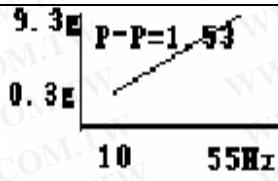
Item	Unit	Specifications
Rated voltage	V p-p	5V
Operating voltage	V p-p	1~30V
Rated current	mA	Max 1mA
Capacitance 120Hz	pF	15000±30%
Sound output at 4kHz 10cm	dBA	Min 85
Resonant frequency	Hz	4000±500
Operating temperature	°C	-20 ~ +60
Storage temperature	°C	-30 ~ +70
Weight	g	1

Value applying rated voltage



3. Reliability Test

Item	Method of Test
1.Storage in high temperature	Storage in +85℃ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2.Storage in low temperature	Storage in -35℃ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
3.Life test in the room temperature	Operate continuously in the room temperature for 1000 hours with applying rated voltage.
4.Life test in high temperature	Operate continuously in +70℃ temperature for 500 hours with applying rated voltage.
5.Life test in low temperature	Operate continuously in -25℃ for 500 hours with applying rated voltage.
6.temperature cycle test	 <p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
7.Humidity cycle test	 <p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>

8.Vibration test	 <p>Make this test for the directions of X,Y and Z for 2 hours each (total 6 hours). To-and-fro sweep time is 1 minute.</p>
9.Drop test	Drop a transducer naturally from the height of 700mm to the surface of 10mm thick wooden board.
10.Solderability test	Soldering temperature :265℃.Heat applying time:3sec.

Requirement: Current Consumption :Initial Value \pm 15%; Sound Output Value \pm 10%

4. Dimensions Unit : mm Tolerance : \pm 0.5

