



PRODUCT SPECIFICATION

Product Name: Piezo Buzzer

Part Number: MSPT14A40P7.6V12

Document No: _____

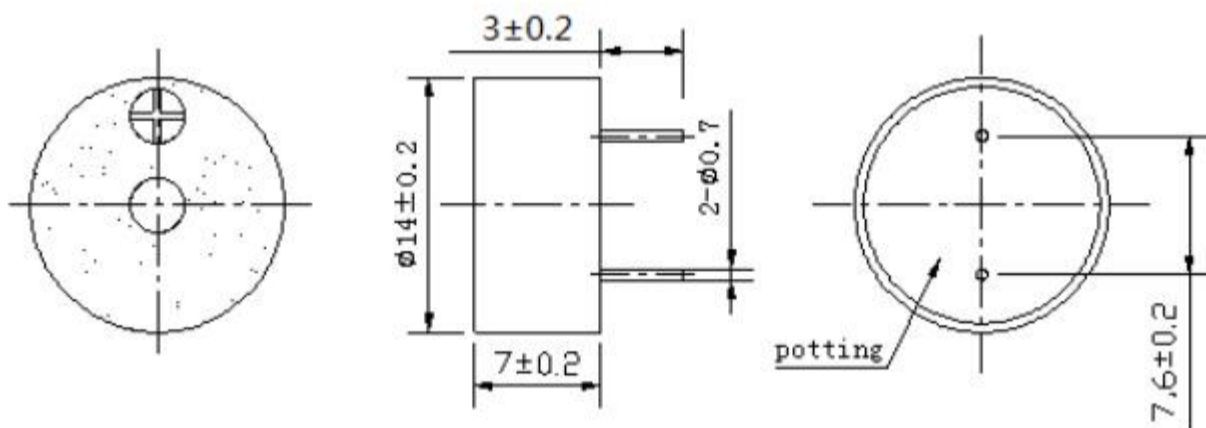
Date: 2021.05.27

DRAWING BY	CHECKED BY	APPROVED BY
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1.SPECIFICATION

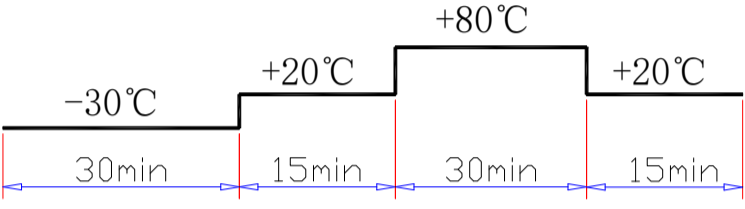
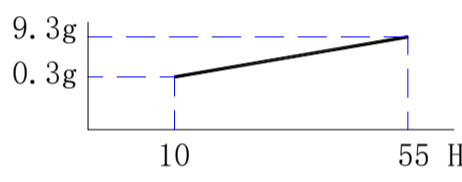
TYPE	NIT	MSPT14A	
Min. Sound Output at 10cm	dB	80	82
Rated Voltage	Vp-p	5v	12v
Operating Voltage	Vp-p	1~25	1~25
Resonant Frequency	Hz	4000±500	4000±500
Max. Current Consumption	mA	3.0	3.0
Capacitance at 1,000Hz	pF	12000±30%	12000±30%
Operating Temperature	°C	-20~+70	-20~+70
Storage Temperature	°C	-30~+80`	-30~+80`
Housing material		PPO	PPO
Weight	g	0.9	0.9

2.APPEARANCE DRAWING



(UNIT:MM) Tolerance: $\pm 0.2\text{mm}$

3.ENVIRONMENTAL TEST

	Item	Specifications
3-1	Storage in High temp.	Storage in $+85^{\circ}\text{C}\pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
3-2	Storage in Low temp.	Storage in $-40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
3-3	Storage in Humidity	Storage in $+40^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
3-4	Thermal cycle test.	 <p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
3-5	Vibration test	 <p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours).</p>
3-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
3-7	Solderability test	Soldering temp.: $260\pm 5^{\circ}\text{C}$ Heat applying time: $3\pm 0.5\text{sec}$.
<p>PASS CRITERION :</p> <p>After these tests , the change of S.P.L shall be within $\pm 5\text{ dB}$.</p>		

4.MEASURING METHOD(BUZZER MODE)

4-1 .Test Condition

4-1-1.STANDARD

Temperature : $25\pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

4-1-2.JUDGEMENT

Temperature : 15 ~ 35°C

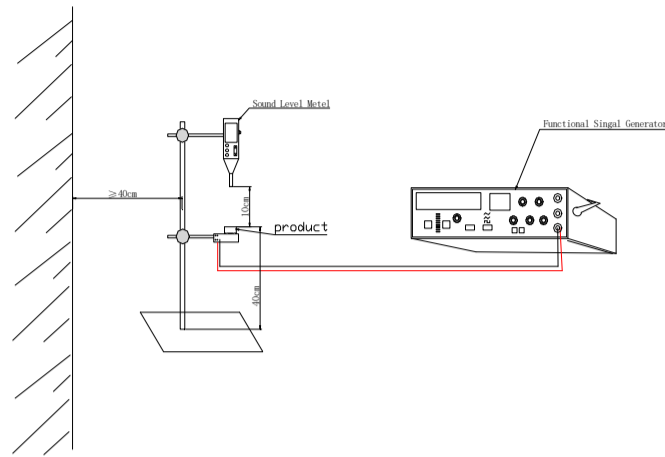
Relative humidity : 45% ~ 85%,

Atmospheric pressure: 860mbar to 1060mbar.

4-2. Standard Test Fixture

1.rated Voltage(Square wave):10V

1. Resonant Frequency:4000Hz



5.PACKING

