

PRODUCT SPECIFICATION

Product Name:		Piezo Buzzer	
Part	Number:	MSPS30F31W112V12PT	
Docu	ment No:		
Date:		2021.05.22	

DRAWING BY	CHECKED BY	APPROVED BY
CHEN YUAN	YUE QIN	JIN LI



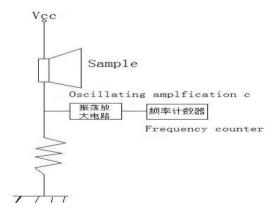
1.SPECIFICATION

Item		Spec	Condition
1	Rated voltage	12VDC	
2	Operation voltage	5-14VDC	
	Count Decouped and CDI	Min 85dB	Standard State,Standard Drive Circuit.
3	Sound Pressure Level=SPL	Typical 90dB	Rated voltage,Distance at 0.1m
4	Oscillation frequency	3100Hz	
5	Response time	Max 50mS	Lowest operation voltage
6	Range of operation temperature	-20∼+80℃	SPL ≥85dB
7	Range of preservation temperature	-30∼+85℃	
8	Terminal strength	10N	Pull load on the direction of the terminal axis
9	Externals size	Ф30*14	Refer to the attached drawing
10	Mass	8g	

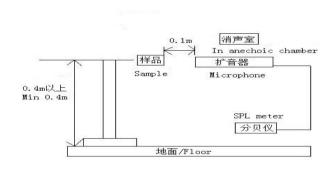
Standard State:Ordinary Temp(15 \sim 35 $^{\circ}$ C),Humidity(25 \sim 85%RH),Air pressure(860 \sim 1060hPa) In case of doubtful judgment,the test is re—performed under Basic State.

Basic State: Temp.(20±2°C), Humidity(60~70%RH), Air pressure(860~1060hPa)

<Standard Drive Circuit>



<Standard Test Fixture>



2.RELIABILITY SPECIFICATION

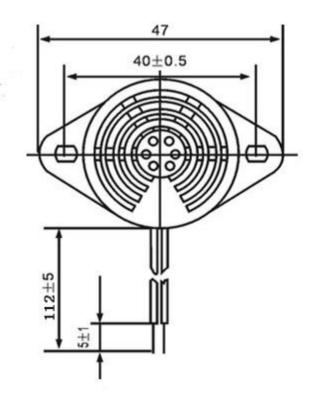
Item	1	Test condition	Criteria
1	High temp erature Pre servation	Exposure to +85℃ for 48 hrs.	After the test the part shall meet specificati -ons without any degra
2	Low tempe rature pres ervation	Exposure to -40°C for 48 hrs.	-dation in appearance

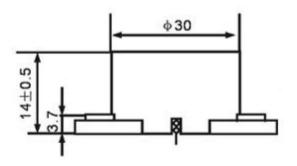


3	Thermal S hock		And performance except SPL.SPL shall be 85dB
4	Thermal,H umidity Sh ock		More.(at 3300±500 Hz)
5	Ordinary T emp.Life	Driving the sounder at 12VDC for 48hrs in the room temperature(25°C±10°C)	
6	High Temp .Life	Driving the sounder at 12VDC for 2hrs in the I ow temperature(+85 $^{\circ}$ C)	
7	Low Temp. Life	Driving the sounder at 12VDC for 2hrs in the I ow temperature(-40°C)	
8	Lead stren gth	Pull load on the direction of the terminal axis f or 10±1 sec.	
9	Vibration	10∼55∼ 10Hz Sinewave,Sweep 1 min,Amplitude 1.52 mm Max91m/S² X,Y,Z 3Direction 2hrs each,T otal 6hrs	
10	Free drop	Free drop,70cm height, on wood boad (t40m m) X,Y,Z 3Direction 1time each, total 3times.	Exclude bending of Pin
11	Wave sold erheat resi stance test	Soldering into solderbath:Solder Temp.262±1 0℃ Soaking Time: 5±0.5sec	After the test the part Shall meet specificatio
12	Washabilit y	Solvent:deionized water, Solvent temp:55±5℃	-ns without any degrada -tion in appearance and
		Soaking time:5±0.5minutes	performance
13	Solderabilit y	Pretreatment:40℃,90∼95%RH*48hrs Soldering into solderbath:Solder Temp.370± 5℃	95% surface of lead pins must be covered with fresh solder and no soldering holes Should be found
		Soaking Time: 6±0.5sec	



3.DIMENSION





4.FREQUENCY CURVE

