

## Loudspeaker

### Electrical and Acoustical Parameter

Norm Input Power(W)

Max. Input Power(W)

Impedance ( $\Omega$  @ 2000 Hz,)

Sound pressure level (dBA @ 10cm, 0.5W, 0.8 ; 1.0 ; 1.2 ; 1.5 kHz average)

Resonance Frequency Fo (Hz)

Frequency Range (Hz)

Remark:

Min.	Typ.	Max.
	0.3	
		0.5
6.8	8	9.2
86	89	92
720	900	1080
Fo		20000

### Mechanical, Environmental Parameter

Contact / Wire

Pad

Contact / Wire Plating

Tin plated copper

Operating Temperature (°C)

-30 ~ +85

Storage Temperature (°C)

-40 ~ +85

Magnet Material

SMCO

Housing Material

LCP

Housing Colour

Black

Membrane Material

Kapton

MSL Level

4

Component Weight (g)

1.5

Remark:

### Approval

RoHs



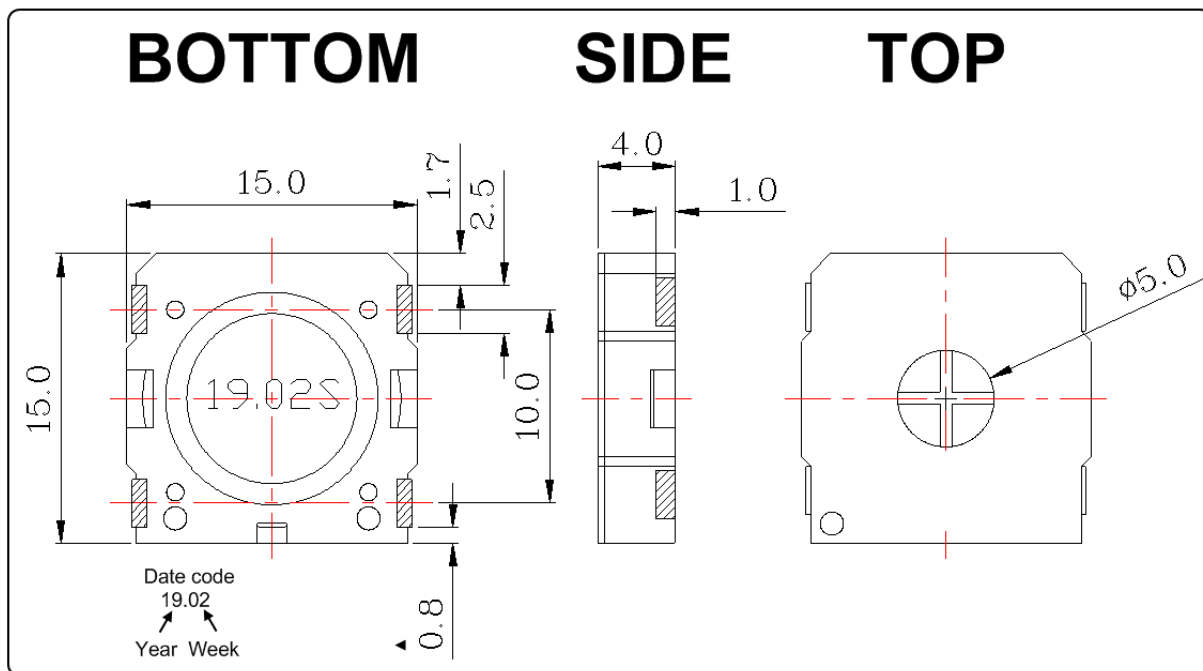
REACH



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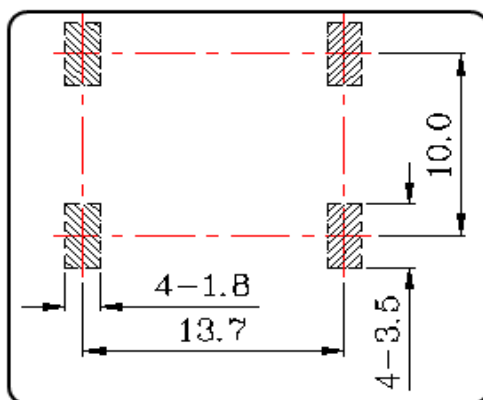
## Drawing of Component

Unit: mm



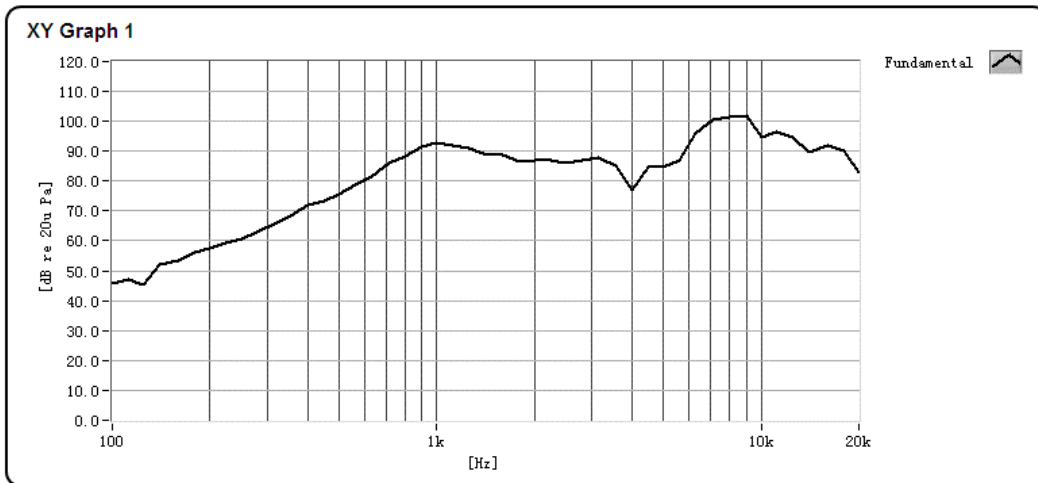
Dimensions without tolerance  $\pm 0.5$  mm

### Recommended Land Pattern:

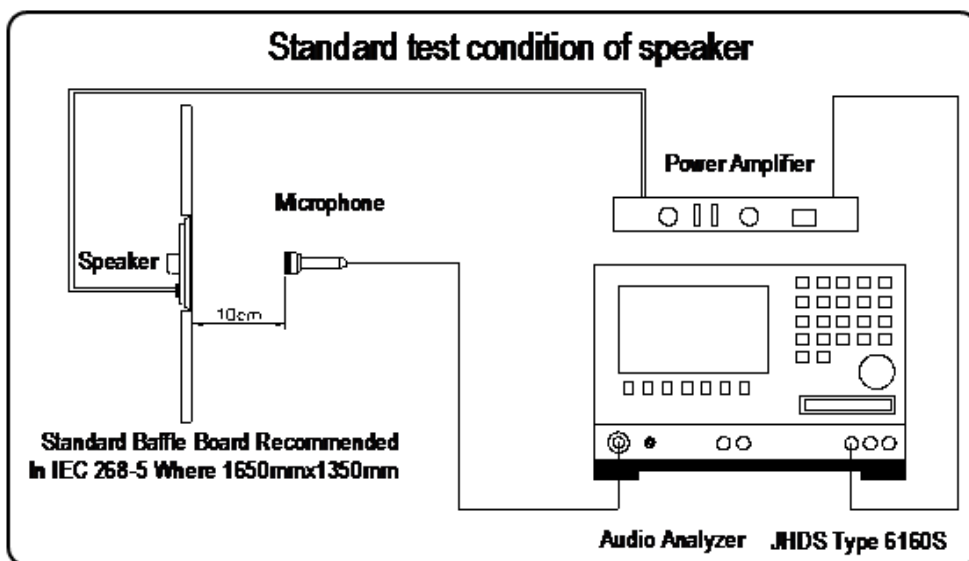
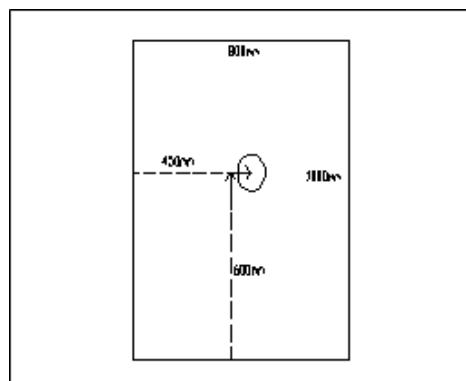


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## Schematic Diagrams and Characteristics



## Test Method



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## Reliability Test

(Criteria : After these test , the change of S.P.L shall be within  $\pm 3$  dB)

### 1) Load Test

Rated Power White noise is applied for 96 hours

### 2) Temperature Test

Keep 96 hours at  $+85^{\circ}\text{C}\pm 3^{\circ}\text{C}$  and leave 3 hours in normal temperature and then checked

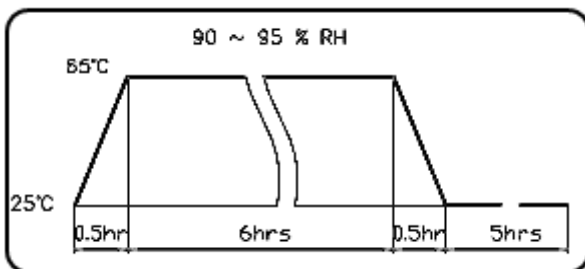
Keep 96 hours at  $-30^{\circ}\text{C}\pm 3^{\circ}\text{C}$  and leave 3 hours in normal temperature and then checked

### 3) Humidity Test

Keep 96 hours at  $+ 40^{\circ}\text{C}\pm 3^{\circ}\text{C}$  relative humidity 92-95% and leave 3 hours in normal temperature and then checked

### 4) Temp./Humidity Cycle Test

The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of



### 5) Thermal cycle test

Low temperature:  $-40^{\circ}\text{C}\pm 3^{\circ}\text{C}$ , temperature:  $+85^{\circ}\text{C}\pm 3^{\circ}\text{C}$ , cycle: 1 hour/cycle each, and then keep 5 cycles in a room.

### 6) Vibration Test

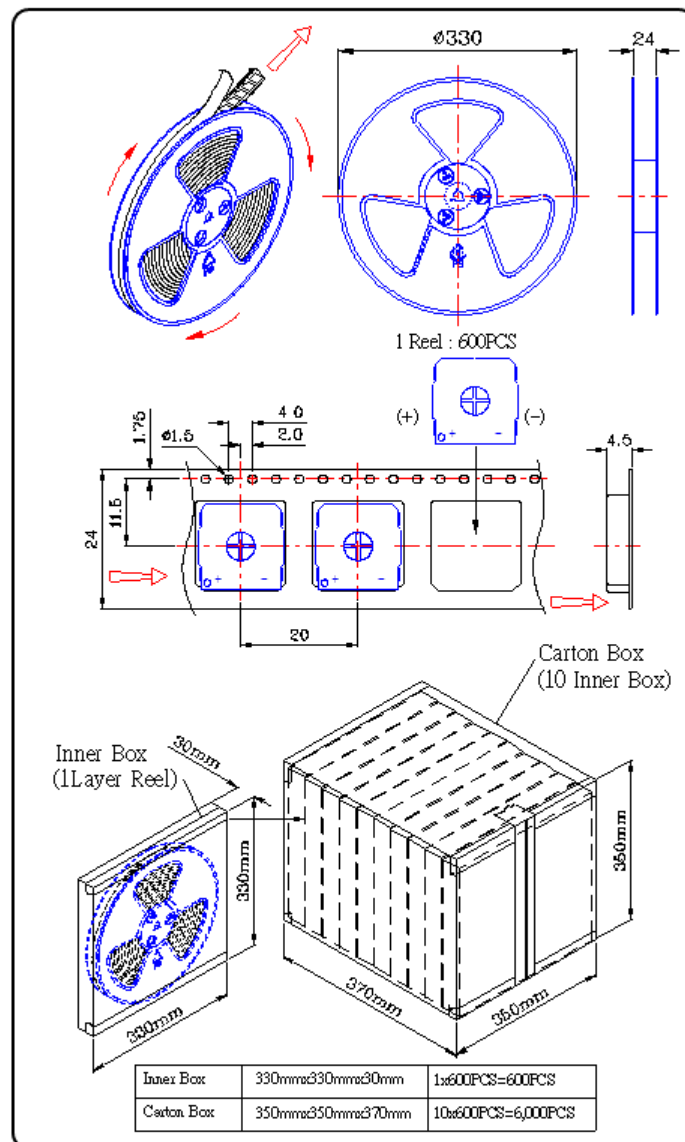
10~55~10Hz sin-wave sweep 15min. 5G(constant)  
X,Y, Z 3 direction. 2 hours each, total 6 hours.

### 7) Drop Test

Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.

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## Packaging Information



## Revision Table

Index Nr.	Reason - Procedure Change description	Date	Name	Comments
01	Added MSL Level; Added Date Code printing	28.05.2019	PB	

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