

Specification for Speaker	Page	2/10
Model No. : KP3642SP7-WP-5675	Revision No.	1.0
	Drawing No.	KFC5675

CONTENTS

1. Scope
2. General
3. Electrical and Acoustic Characteristics.
4. Reliability Test
5. Measurement Block Diagram & Response curve
6. Structure
7. Waterproof part drawing
8. Dimensions
9. Packing
10. Revision

Specification for Speaker		Page	3/10
Model No. : KP3642SP7-WP-5675		Revision No.	1.0
		Drawing No.	KFC5675

1. Scope

This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.

-- compact, rich sound

-- applications: telephone, print, electrical appliance, etc. . .

2. General

2.1 Out-Diameter : 36 mm

2.2 Height : 4.7 mm

2.3 Weight : 10 g

2.4 Operating Temperature range:

-20 ~+60 °C without loss of function

2.5 Store Temperature range:

-30 ~+75°C without loss of function

3. Electrical and Acoustic Characteristics.

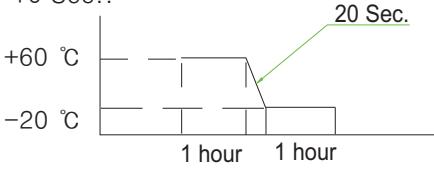
Test condition : 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification
1	Impedance	16 Ω ± 15% (1Vrms at 1.5KHz)
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M Avg. at 1.0k,1.2k,1.5k,2.0kHz)
3	Resonance Frequency	500 Hz ± 20%
4	Frequency Range	Fo ~6KHz
5	Input Power	Rated 0.5 W / Max. 1 W
6	Distortion	10% Max. at 2kHz 0.5W
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 2.83V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

Specification for Speaker		Page	4/10
Model No. : KP3642SP7-WP-5675		Revision No.	1.0
		Drawing No.	KFC5675

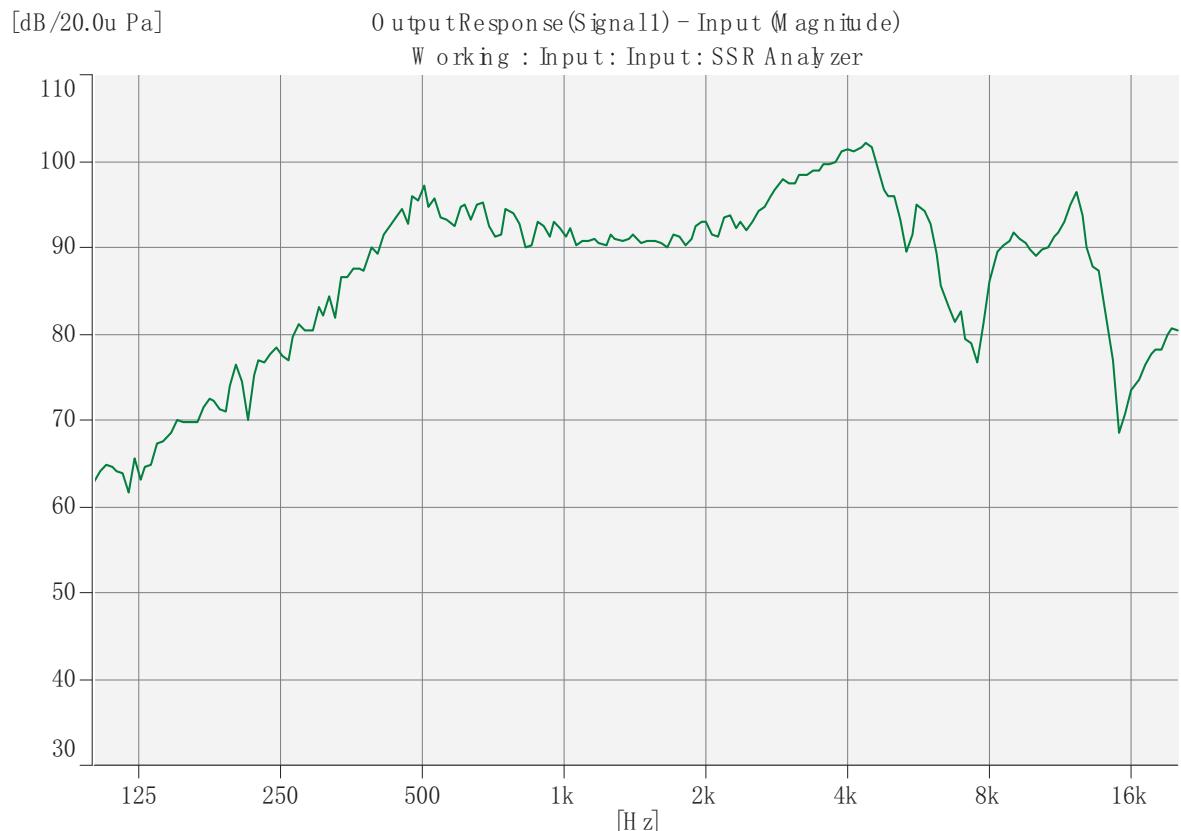
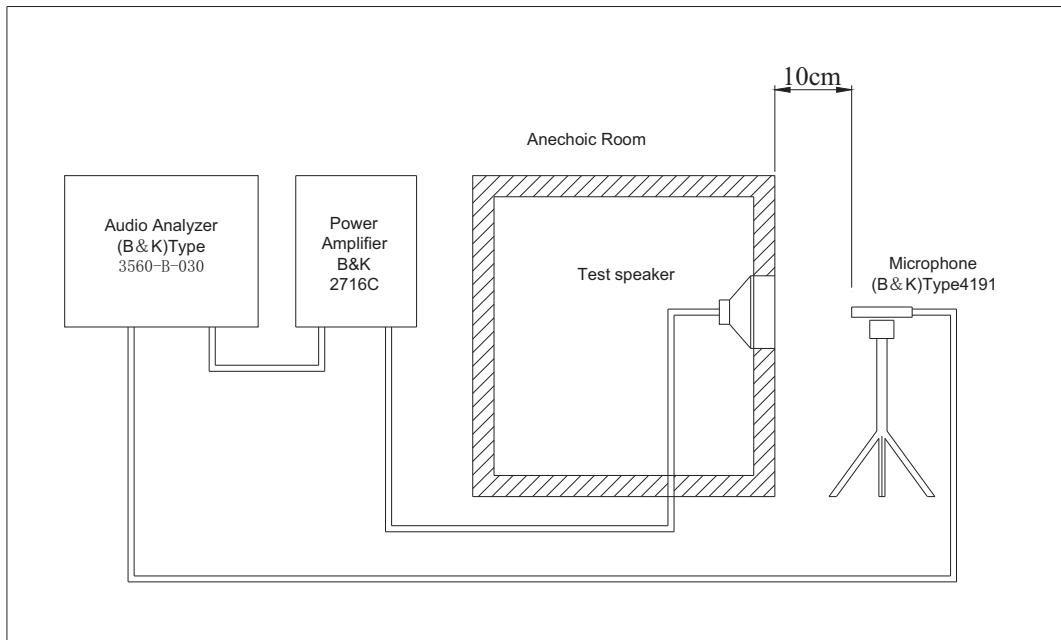
4. Reliability Test

After test(1~7item), the speaker S.P.L . difference shall be within ± 3 dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+75^{\circ}\text{C} \pm 3$ $^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -30 ± 3 $^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at $+40 \pm 2$ $^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	Thermal Shock Test	After being placed in a chamber at $+60$ $^{\circ}\text{C}$ for 1 hour, then speaker shall be placed in a chamber at -20°C for 1 hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec.. 
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour, then placed in natural condition for 1 hour, speaker shall be measured.
6	Drop Test	The speaker when mounted in the jig which weight 85g~100g, shall with stand 15 times random drops from a height of 1.5 meter to a concrete floor faced with 5mm thick hard wood board.and be nothing mechanical damage.
7	Load test	After being applied loading white noise with input power 0.5W(2.83Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
8	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 M Ω

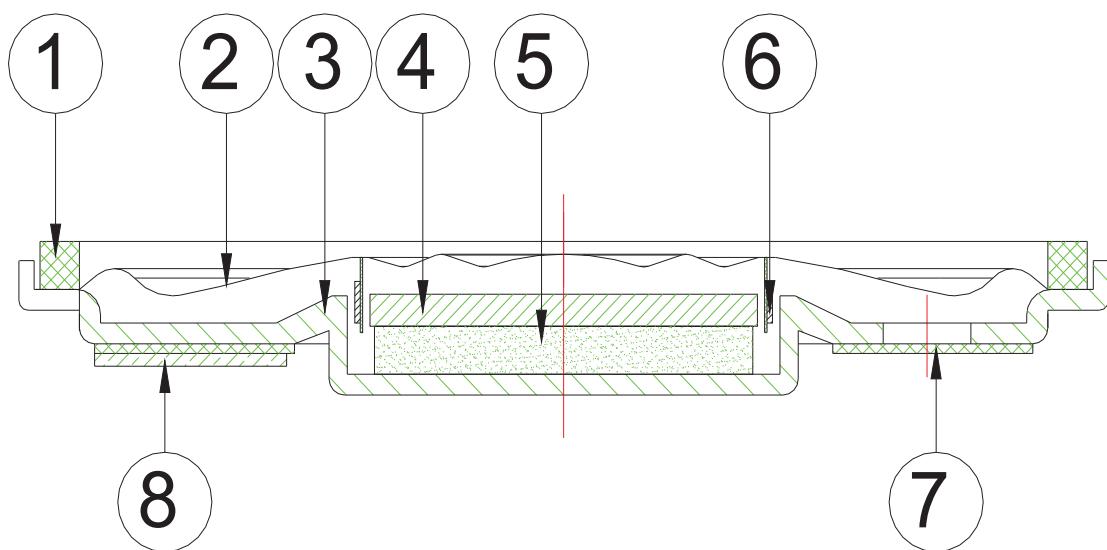
Specification for Speaker		Page	5/10
Model No. : KP3642SP7-WP-5675		Revision No.	1.0
		Drawing No.	KFC5675

5. Measurement Block Diagram & Response curve



Specification for Speaker		Page	6/10
Model No. : KP3642SP7-WP-5675		Revision No.	1.0
		Drawing No.	KFC5675

6. Structure

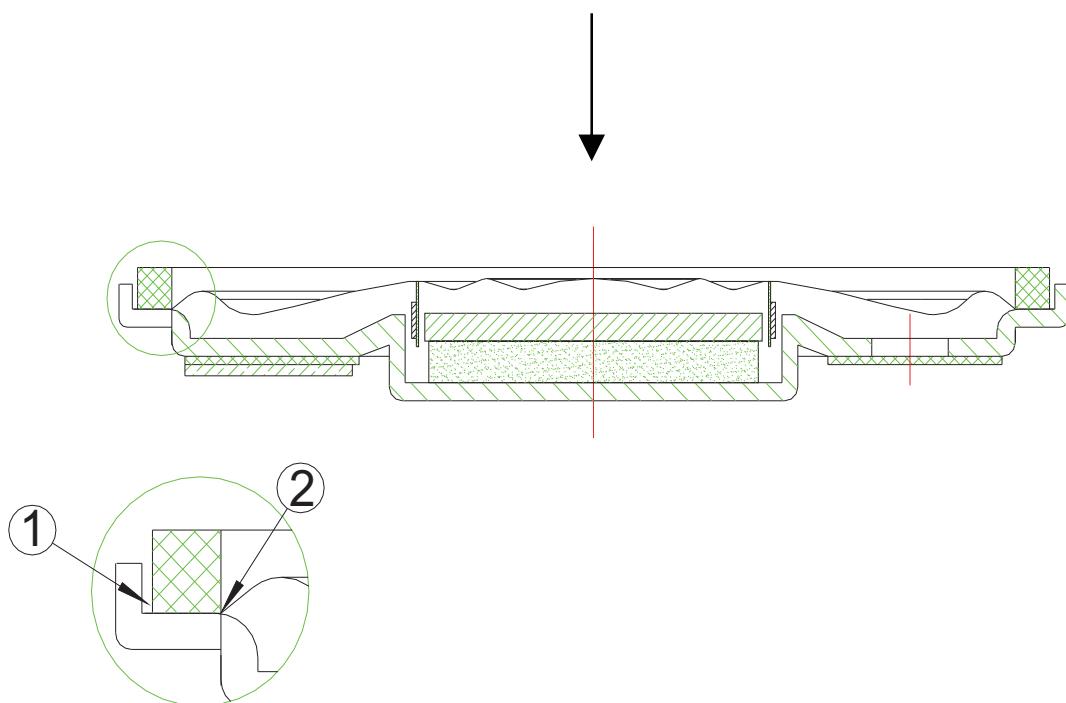


No.	Part Name	Q'ty	Material	Remarks
8	Terminal	1	FR-4 Epoxy	
7	Screen	1	NET	
6	Voice Coil	1	Paper+Copper	
5	Magnet	1	N35	
4	Plate	1	SPCC	
3	Frame	1	SPCC	
2	Waterproof Diaphragm	1	Mylar	
1	Gasket	1	ABS	

Specification for Speaker		Page	7/10
Model No. : KP3642SP7-WP-5675		Revision No.	1.0
		Drawing No.	KFC5675

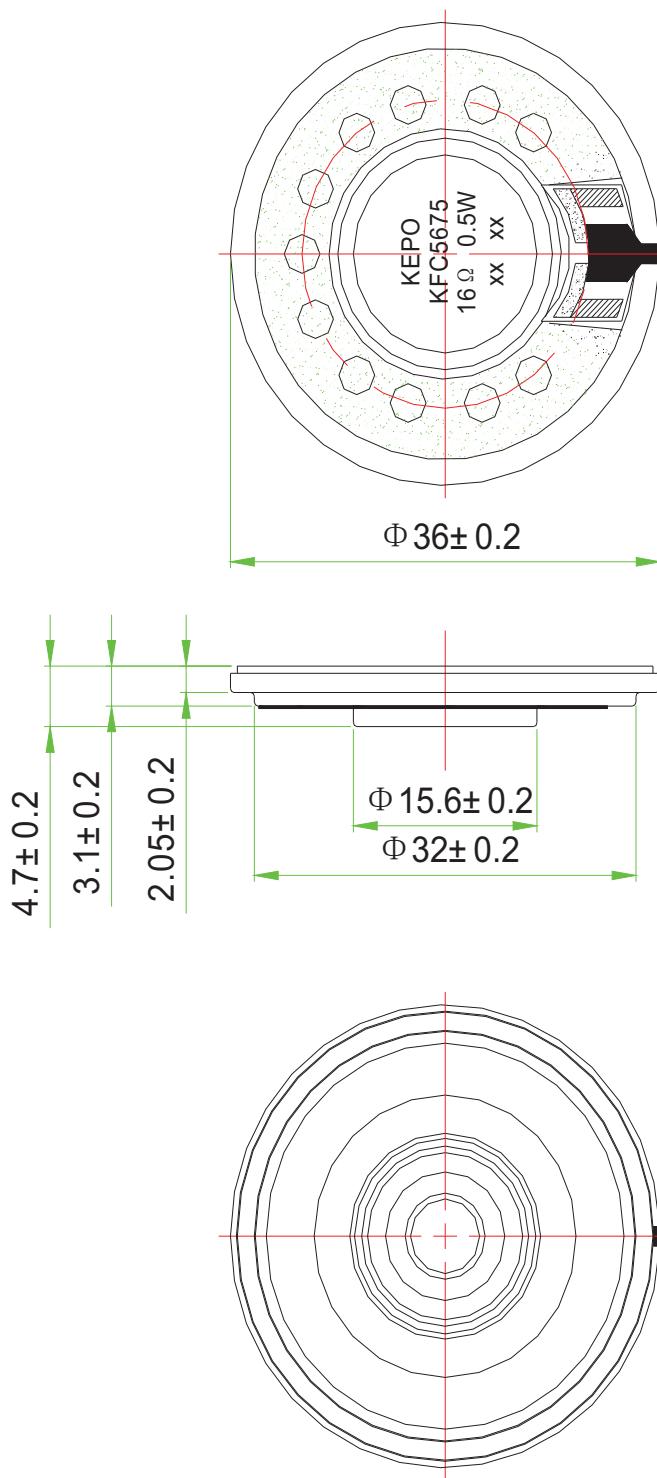
7. Waterproof part drawing

Hydraulic pressure direction



					Product under 4.9kpa hydraulic pressure for 30 minute, the water will not filter.
2	Between	Waterproof Cone	and	Frame	
1	Between	Waterproof Cone	and	Gasket	
No.	Part Name				Waterproof conditions

8. Dimensions



FIRST ANGLE PROJECTION

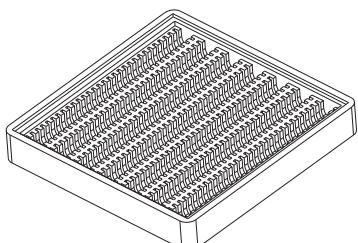
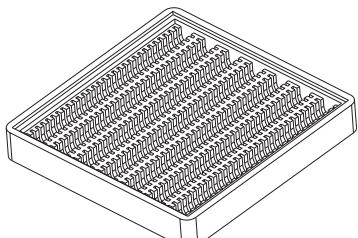


UNIT : mm

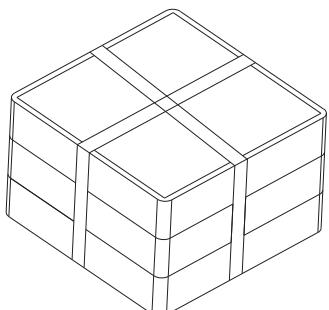
Tolerance : ± 0.3

Specification for Speaker		Page	9/10
Model No. : KP3642SP7-WP-5675		Revision No.	1.0
		Drawing No.	KFC5675

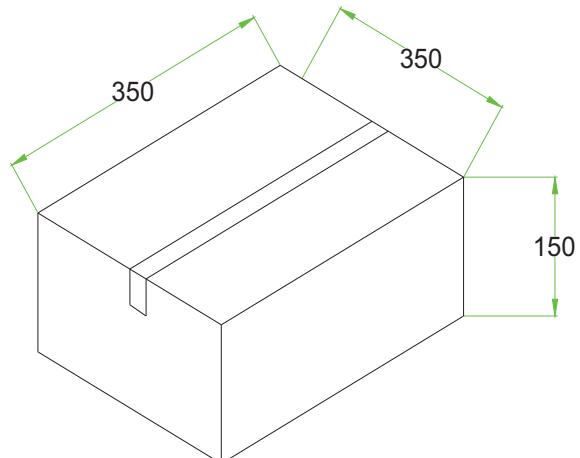
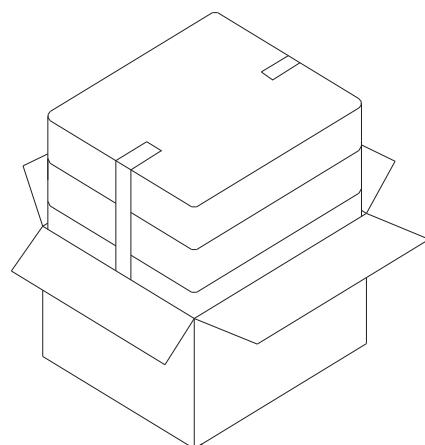
9. Packing



210Pcs/Tray



630Pcs/3Tray



3Trays/Carton(630pcs)
350x350x150mm

Specification for Speaker	Page	10/10
	Revision No.	1.0
Model No. : KP3642SP7-WP-5675	Drawing No.	KFC5675

10. Revision