Specification for Speaker		Page	2/10
· · · · · · · · · · · · · · · · · · ·		Revision No.	1.0
Model No.	: KP45170SP3-WP-6581	Drawing No.	1.0

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
·		Revision No.	1.0
Model No.	: KP45170SP3-WP-6581	Drawing No.	KFC6581

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 : 44.5 mm
 2.2 Height : 17 mm
 2.3 Weight : 27 g

2.4 Operating Temperature range:

-20 ~+60 °C without loss of function

2.5 Store Temperature range:

-30 ~+60°C without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 2.0KHz)		
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M Avg. at 1.0k,1.2k,1.5k,2.0kHz		
3	Resonance Frequency	750 Hz ± 20%		
4	Frequency Range	Fo ~4KHz		
5	Input Power	Rated 3 W / Max. 4 W		
6	Distortion	10% Max. at 2kHz 3W		
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 4.9V sine wave signal swept at frequency range.		
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.		
9	water-proof	IPX7		

Specification for Speaker		Page	4/10
· · · · · · · · · · · · · · · · · · ·		Revision No.	1.0
Model No.	: KP45170SP3-WP-6581	Drawing No.	KFC6581

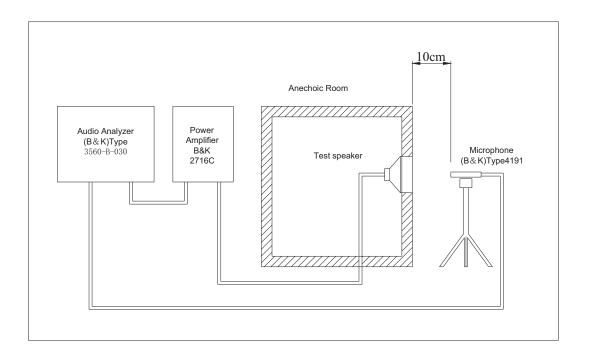
4. Reliability Test

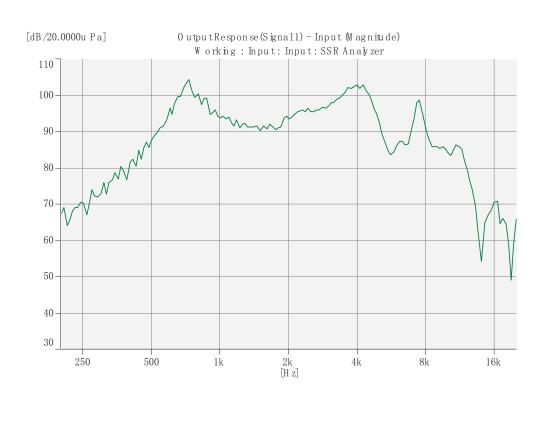
After test(1~7item), the speaker S.P.L. difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with +60°C±3 °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 °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 °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 °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 +60 °C 1 hour 1 hour
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to55Hz 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 3W(4.9Vrms.) 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 $\text{M}\Omega$

Specification for Speaker		Page	5/10
· · · · · · · · · · · · · · · · · · ·		Revision No.	1.0
Model No.	: KP45170SP3-WP-6581	Drawing No.	KFC6581

5. Measurement Block Diagram & Response curve



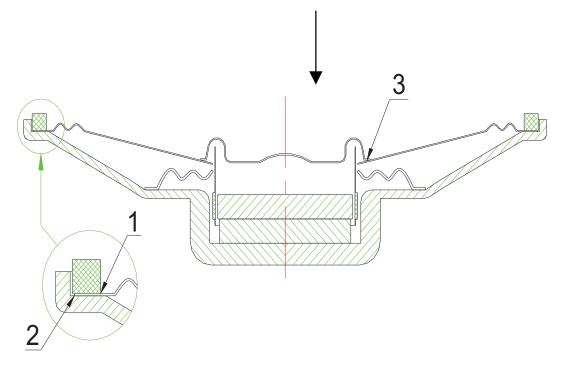


				Page	6/10
Specification for Speaker			Revision No.	1.0	
Model No. : KP45170SP3-WP-6581			Drawing No.	KFC6581	
8	Top Plate	3	4 5 6 8		7
7	Gasket	1	ABS		
6	Spider	1	Silk		
5	Dust Cap	1	Mylar		
4	Magnet	1	Nd-Fe-B		
3	Voice Coil	1	Paper+Copper		
2	Waterproof Cone	1	Mylar		
1	Frame	1	SPCC+Q195		
No.	Part Name	Q'ty	Material	Rer	marks

Specification for Speaker		Page	7/10
		Revision No.	1.0
Model No.	: KP45170SP3-WP-6581	Drawing No.	KFC6581

7. Waterproof part drawing

Hydraulic pressure direction

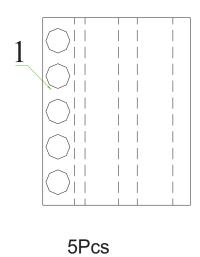


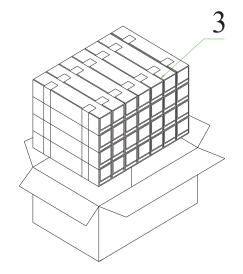
3	Between	Waterproof Cone	and	Dust Cap	Product under 4.9kpa
2	Between	Waterproof Cone	and	Frame	hydraulic pressure for 30 minute, the water will not
1	Between	Waterproof Cone	and	Gasket	filter.
No.		Part I	Name		Waterproof conditions

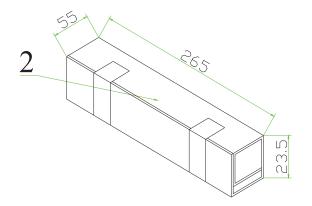
		Page	8/10
	Specification for Speaker	Revision No.	1.0
Model No.	: KP45170SP3-WP-6581	Drawing No.	KFC6581
	mensions KEPO KFC6581 8Ω 3W xx xx W Y Y	EEK EAR	NFC0081
IRST ANGLE PROJEC	Φ21.9±0.3_	UNIT Toleran	: mm ce : ±0.3

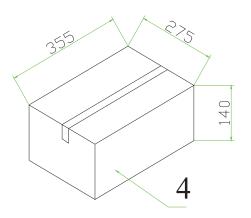
Specification for Speaker		Page	9/10
· · · · · · · · · · · · · · · · · · ·		Revision No.	1.0
Model No. : KP45170SP3-WP-6581		Drawing No.	KFC6581

9. Packing









QTY:150Pcs 355 x275 x140