SP	'E	ECIFICATION	受	控
Customer	:	QUARTZ		
Applied To	•			

Product Name: Speaker

Model Name : KP45170SP3R4-WP-7862

Drawing No. : KFC7862

Compliance with ROHS

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date		
toos	司弹簧	萨兰神			
宁波凯普电子有限公司					
「SO9001 Certificate デ波东銭湖镇东銭湖工业区宝源路 25 号 TEL:+86-574-88370330 FAX:+86-574-88370329 No.25 Baoyuan road Donggian Lake, Industry Area, Donggian town, Ningbo City,					

*No.25 Baoyuan road Dongqian Lake, Industry Area, Dongqian town,Ningbo City, China(Post Code:315121)* 

Sales@chinaacoustic.com www.chinaacoustic.com

Specification for Speaker		Page	2/10
		Revision No.	1.0
Model No.	: KP45170SP3R4-WP-7862	Drawing No.	KFC7862

## 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. : KP45170SP3R4-WP-7862	Drawing No.	KFC7862

## 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:

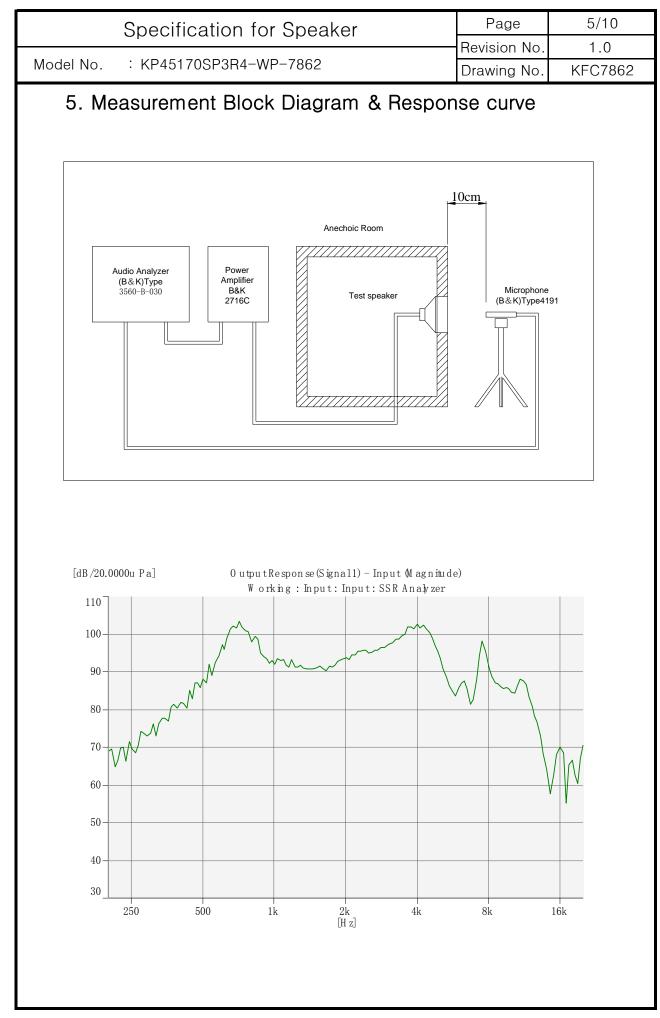
-25 ~+60  $^\circ\!\! C$  without loss of function

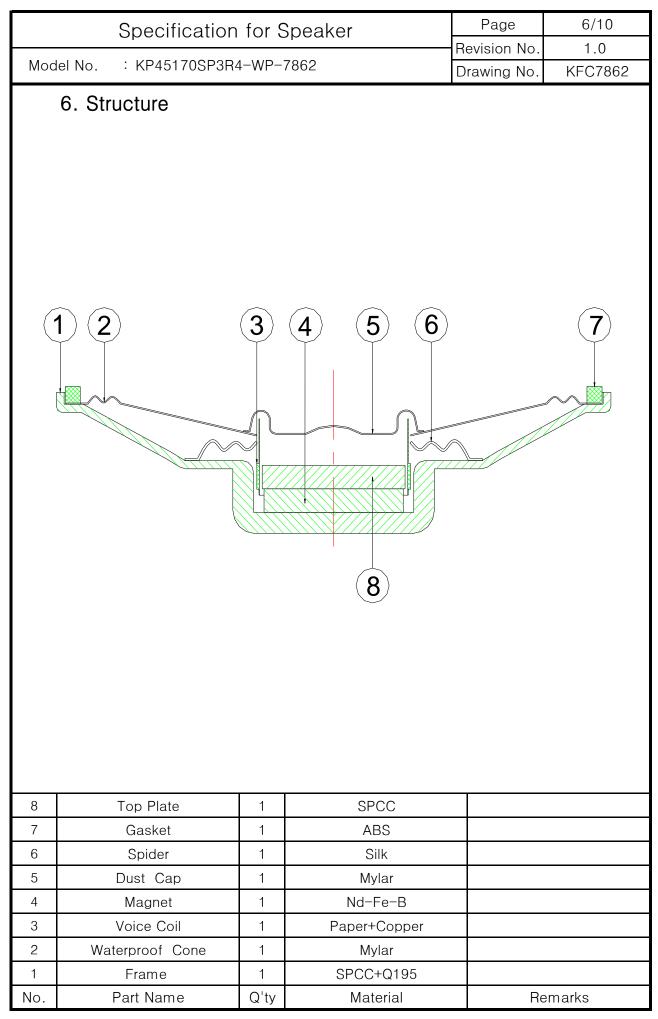
## 3. Electrical and Acoustic Characteristics.

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

No	ltems	Specification		
1	Impedance	$4 \Omega \pm 15\%$		
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M Avg. at 1k,1.2k,1.5k,2kHz)		
3	Resonance Frequency	800 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 3.46V 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		

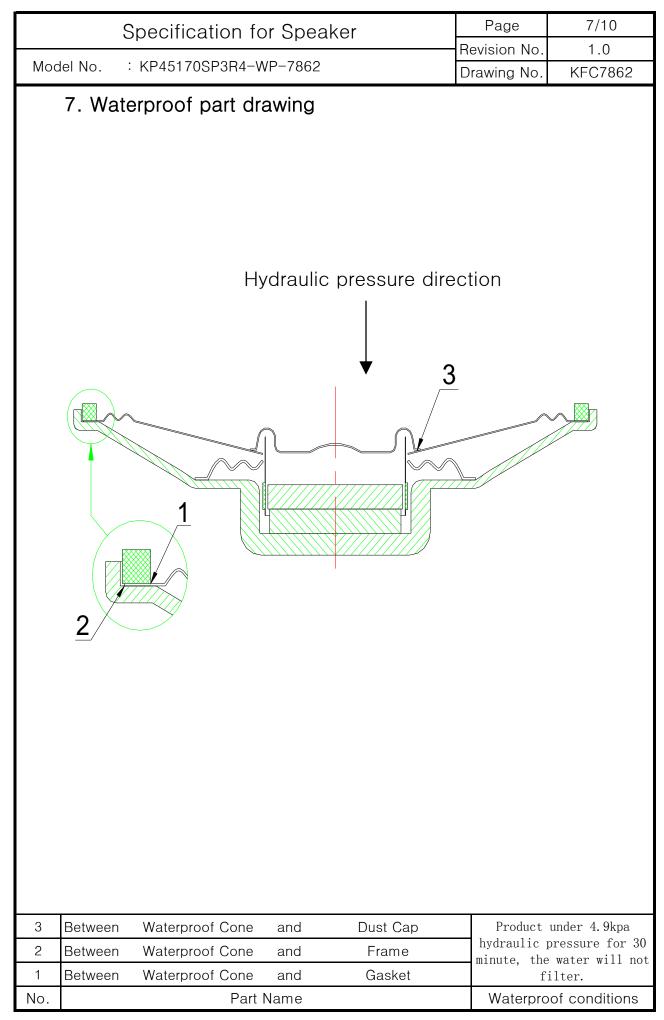
	Specification for Speaker Page 4/10					
Ν	Model No. : KP45170SP3R4-WP-7862			Revision No. Drawing No.	1.0 KFC7862	
	<b>4. Reliability Test</b> After test(1~7item), the speaker S.P.L . difference shall be within ±3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).					
	No	ltems	Specificatio	n		
	1	High Temperature Test	After being placed in a chamber with +6 then being placed in natural condition for measured.			
	2	Low Temperature Test	After being placed in a chamber with -2 then being placed in natural condition for measured.			
	3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at +40±2 °C 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 -20 °C 1 hour 1 hour			
	5	5 Vibration Test After being applied vibration of amplitude of 1.5mm with 10 to55Hz band of vibration frequency to each of 3 perpendicula directions for 1 hour, then placed in natural condition for 1 hour, speaker shall be measured.			rpendicular	
	6	Drop Test	The speaker when mounted in the jig shall with stand 15 times random dro meter to a concrete floor faced with s board.and be nothing mechanical da	ps from a heig 5mm thick har	ght of 1.5	
	7	Load test	After being applied loading white noi 3W(3.46Vrms.) for 96 hours, then pla for 1 hour, speaker shall be measure	aced in natural		
	8	Insulation test	When they are measured with DC 10 resistance between v.c. terminal and 1 MΩ			

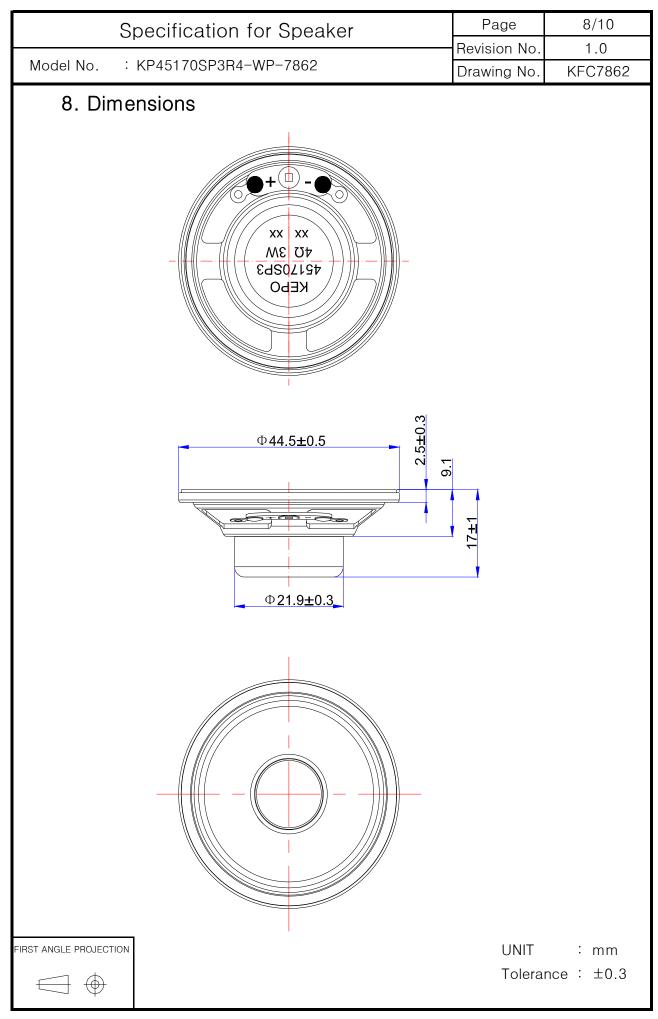




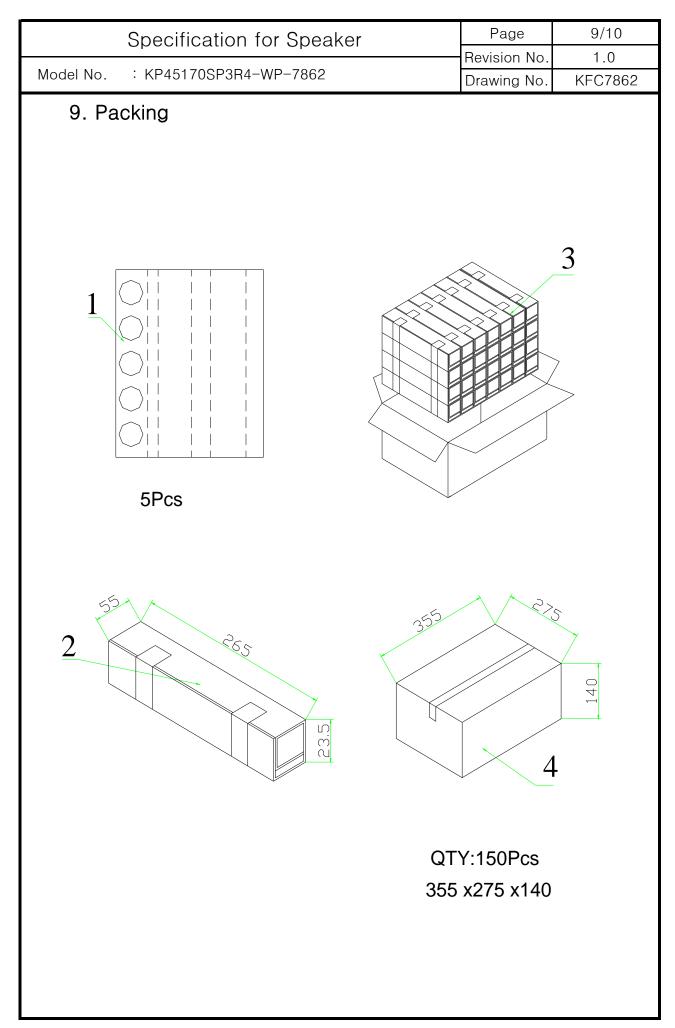
Ningbo Kepo Electronics Co., Ltd.

http://www.chinaacoustic.com





Ningbo Kepo Electronics Co., Ltd.



	Specification for Speaker Page 10/1							
Мос	Model No.KP45170SP3R4-WP-7862Revision No.1.0Drawing No.KFC78							
	10. Revis	ion		Drawing No.		002		
Rev. No.	DATE	PAGE	DESCRIPTION			BOM		
1.0	2015-12-15		Primary					