SPECIFICATION



Customer : KEPO

Applied To :

Product Name: SPEAKER

Model Name: KP3642SP4F650

Drawing No. : KF3.001.352

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
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	Specification for Speaker	Page	2/9
opecinication for opeaner		Revision No.	1.0
Model No.	: KP3642SP4F650	Drawing No.	KF3.001.352

CONTENTS

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

	Specification for Speaker	Page	3/9	
opcomedien for opcanor		Revision No.	1.0	
Model No.	: KP3642SP4F650	Drawing No.	KF3.001.352	

1. Scope

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

- -- compact, rich sound
- -- applications: mobile phone, PDA, notebook computer, etc. ..

2. General

2.1 Out-Diameter : 36 mm
2.2 Height : 5.6 mm
2.3 Weight : 5.8 g
2.4 Operating Temperature range:

-20~+60°C without loss of function

2.5 Store Temperature range:

-30~+70°C without loss of function

3. Electrical and Acoustic Characteristics.

Test condition: $15 \sim 35 \,^{\circ}\mathrm{C}$, $25\% \sim 85\% \,^{\circ}\mathrm{RH}$, $860 \sim 1060 \,^{\circ}\mathrm{mbar}$

No	Items	Specification
1	Impedance	$8~\Omega~\pm 15\%~$ (1Vrms at 1.5KHz)
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M/Avg 1.0,1.2,1.5,2.0KH
3	Resonance Frequency	650 Hz ± 20%
4	Frequency Range	Fo ~4.5KHz
5	Input Power	Rated 1 W / Max. 2 W
6	Distortion	<5% Max. at 2kHz/2Vrms
7	Buss 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	4/9
opecification for opeaner		Revision No.	1.0
Model No.	: KP3642SP4F650	Drawing No.	KF3.001.352

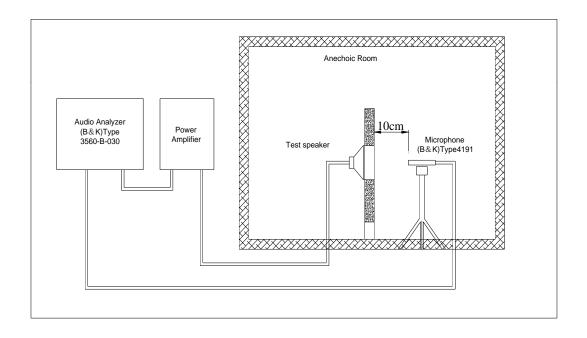
4. Reliability Test

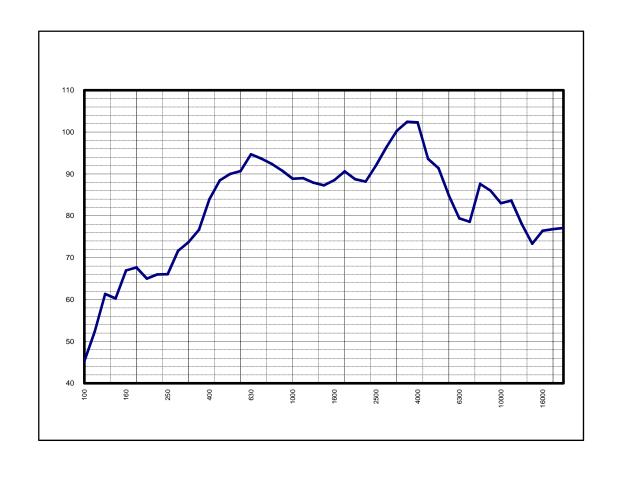
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification	
1	High Temperature Test	After being placed in a chamber with +70±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 ℃ 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±2 °C for 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 b placed in a chamber at -20°C for 1 hour(1 cycle is the below diagram). After 6 above cycles, speaker shall be measured after being placed in natural condition for 1 hour. +60°C -20°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 1W(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 $\mbox{M}\Omega$	

Specification for Speaker	Page	5/9
·	Revision No.	1.0
Model No. : KP3642SP4F650	Drawing No.	KF3.001.352

5. Measurement Block Diagram & Response curve

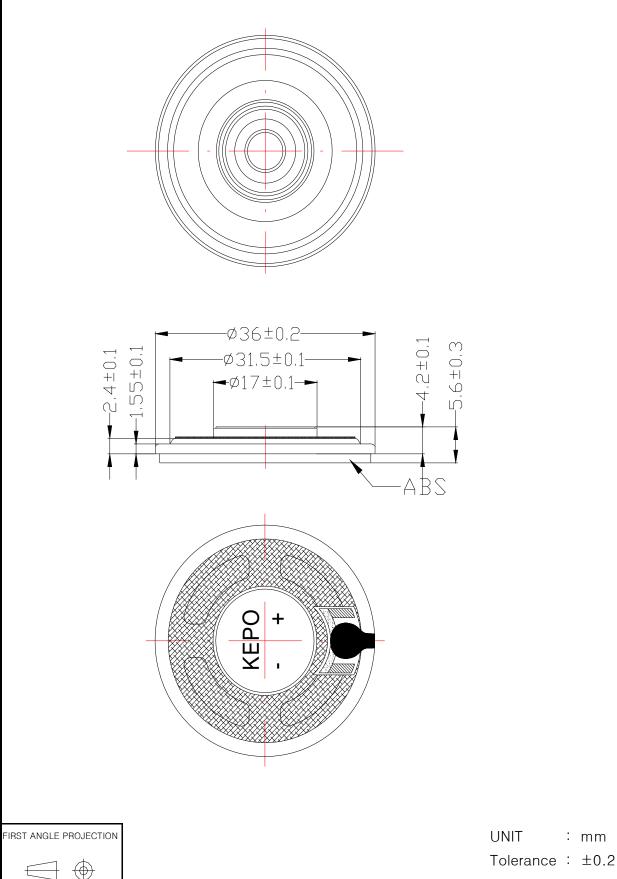




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	Specification	peaker	Revision No.	1.0	
Model No. : KP3642SP4F650			Drawing No.	KF3.001.352	
6. St	7 6	3	2	8	
10					
9					
8	Screen		2B		
7	Gasket 1 ABS				
6	Terminal	1	PCB		
5	Frame	1	SPCC		
4	Magnet	1	Nd-Fe-B		
3	Plate	1	SPCC		
2	Diaphragm	1	Mylar		
1	V-coil	1	Copper	wit	h paper
No.	Part Name	Q'ty	Material		emarks

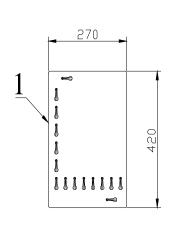
Specification for Speaker	Page	7/9
epocification for epocitor	Revision No.	1.0
Model No. : KP3642SP4F650	Drawing No.	KF3.001.352

7. Dimensions

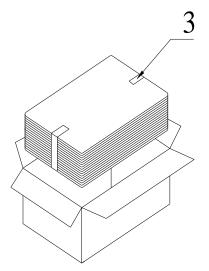


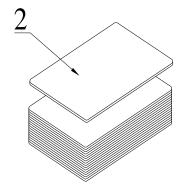
Specification for Speaker		Page	8/9
		Revision No.	1.0
Model No.	KP3642SP4F650	Drawing No.	KF3.001.352

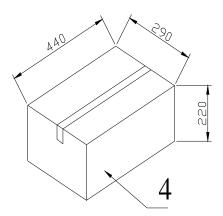
8. Packing



50Pcs







QTY: 800Pcs 440 x290 x220

Specification for Speaker Page 9/9)	
				Revision No.	1.0	
Model No. : KP3642SP4F650 Drawing No. KF3.001.						1.352
9. Revision						
Rev.	DATE	DACE	DESCRIPTION			ВОМ
No.	DATE	PAGE	DESCRIPTION			BOIN
1.0	2015-3-24		Primary			
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