Specification for Ear Phone	Page	2/9
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Model No. : KPE1012	Drawing No.	KF3.005.023

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 Ear Phone	Page	3/9
	Revision No.	1.0
Model No. : KPE1012	Drawing No.	KF3.005.023

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 : Φ10 mm
 2.2 Height : 4.7 mm
 2.3 Weight : 0.5 g

2.4 Operating Temperature range:

-20~+60℃ 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 °C, 25% \sim 85% RH, 860 \sim 1060 mbar

No	Items	Specification		
1	Impedance	$32~\Omega~\pm 15\%~$ (1Vrms at 1KHz)		
2	Sound Pressure Level	114 dB ± 3dB (179mV at 1kHz)		
3	Resonance Frequency	450 Hz ± 20%		
4	Frequency Range	70Hz ~20KHz		
5	Input Power	Rated 10 mW / Max. 20 mW		
6	Distortion	<5% Max. from 150Hz to 16kHz		
7	Buss and Rattle	Should not be audible buzzes, rattles when the 0.57V 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 Ear Phone	Page	4/9
op commenter for Early Herro	Revision No.	1.0
Model No. : KPE1012	Drawing No.	KF3.005.023

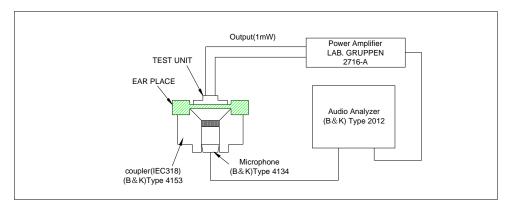
4. Reliability Test

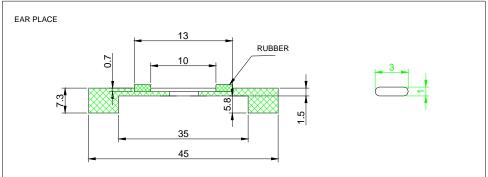
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3 dB$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

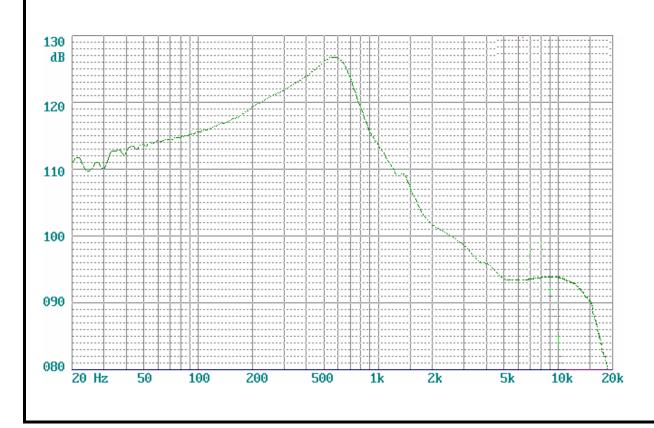
No	Items	Specification		
1	High Temperature Test	After being placed in a chamber with +70±3 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.		
2	Low Temperature Test	After being placed in a chamber with -30±3 ℃ for 96 hours and then being placed in natural 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 10W(17.89Vrms.) 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 Ear Phone	Page	5/9
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Model No. : KPE1012	Drawing No.	KF3.005.023

5. Measurement Block Diagram & Response curve

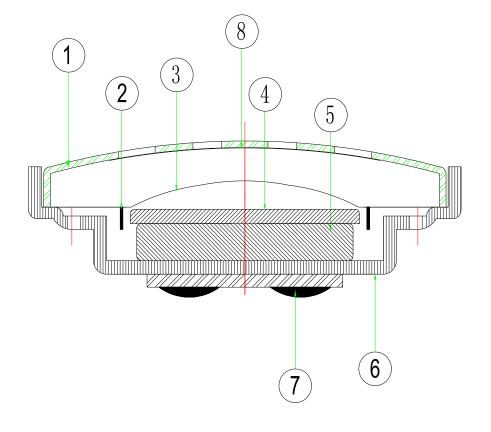






Specification for Ear Phone Revision No.	
	1.0
Model No. : KPE1012 Drawing No. KF3	3.005.023

6. Structure

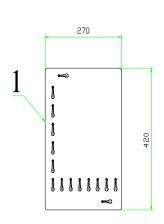


8	Screen	1	Net	
7	Terminal	1	Epoxy PCB	
6	Frame	1	PBT	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPC	
3	Diaphragm	1	PET	
2	Voice Coil	1	Copper	
1	CAP	1	ABS	
No.	Part Name	Q'ty	Material	Remarks

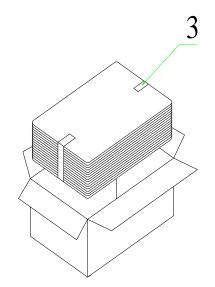
Specification for Ear Phone	Page	7/9
Model No. : KPE1012	Revision No. Drawing No.	1.0 KF3.005.023
7. Dimensions		
MARK(+)	<u>1.5</u>	
GREEN		
FIRST ANGLE PROJECTION	UNIT Tolera	: mm nce : ±0.2

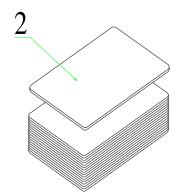
Specification for Ear Phone	Page	8/9
·	Revision No.	1.0
Model No. : KPE1012	Drawing No.	KF3.005.023

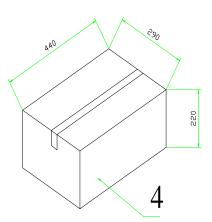
8. Packing



75Pcs







QTY: 1500Pcs 440 x290 x220

Specification for Ear Phone			Page	9/9		
Model No. : KPE1012			Revision No.			
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	9. Revisio	n —				
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