

SPEC. No.:DY120602 <b>SPECIFICATION</b>		MODEL NO.	<b>Динамик</b> <b>13x18мм 8 Ом 1W</b>	<b>P1/6</b>
ISSUED DATE	2012-6-2			
REVERSION	2005A	UPDATE	00	

### 1. SCOPE

This specification covers our product of dynamic speaker unit for mobile telephone use.

### 2. MECHANICAL LAYOUT & DIMENSIONS

Shown in Fig.5

### 3. GENERAL REQUIREMENTS

**3.1 OPERATING TEMPERATURE RANGE: -20°C ~ +60°C**

#### 3.2 STANDARD TEST CONDITIONS:

Temperature:	17~25°C
Relative Humidity:	45% ~ 80%(RH)
Air Pressure:	860~1060 hPa

#### 3.3 JUDGEMENT CONDITIONS:

Temperature:	20±2°C
Relative Humidity:	60% ~ 70%(RH)
Air Pressure:	860~1060 hPa

### 4. SPEAKER MODE

#### 4.1 SOUND PRESSURE LEVEL

**85±3dB SPL @0.8,1.0,1.2,1.5KHz in average** (0dB SPL=20μPa)

Measuring condition: 0.1W (Sine wave) 0.1m measured with baffler shown in Fig.1.

**4.2 IMPEDANCE: 8±15%Ω (@2KHz 1V)** without baffler.

**4.3 MEASURING DIAGRAM:** Shown in Fig.1.

**4.4 TYPICAL FREQUENCY RESPONSE CURVE:** Shown in Fig.2.

**4.5 RATED POWER: 0.7W. MAX POWER: 1.0W**

**4.6 RESONANCE FREQUENCY (F<sub>0</sub>): 1000±20%Hz @ 1V.** (Without Baffler)

**4.7 DISTORTION:** Less than **10%** at 1KHz, **0.8W**

**4.8 BUZZ RATTLE:** Must be normal at sine wave **2.37V**

NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
1					
2					
3					

4				
<b>SPECIFICATION</b>		MODEL NO.	Динамик 13x18мм 8 Ом 1W	P2/6
ISSUED DATE	2012-6-2			
REVERSION	2005A	UPDATE	00	

■ **FREQUENCY MEASURING CIRCUIT (SPEAKER MODE) (Fig.1)**

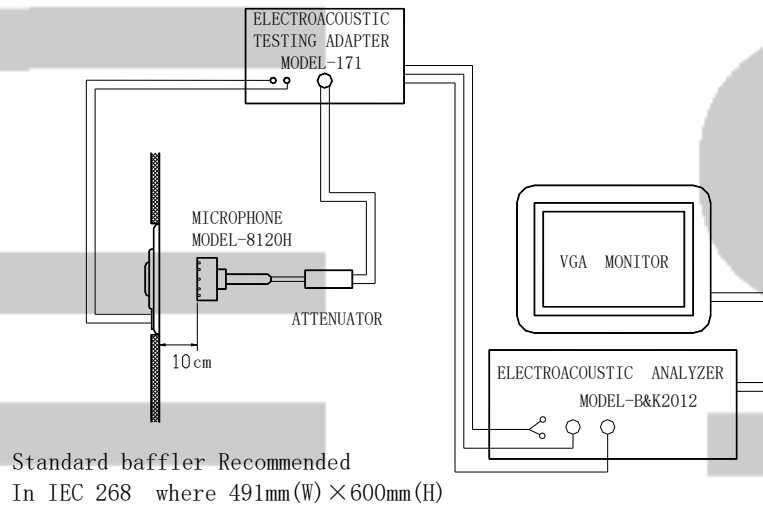


Fig.1 Illustration of measuring diagram (speaker mode)

■ **TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig.2)**

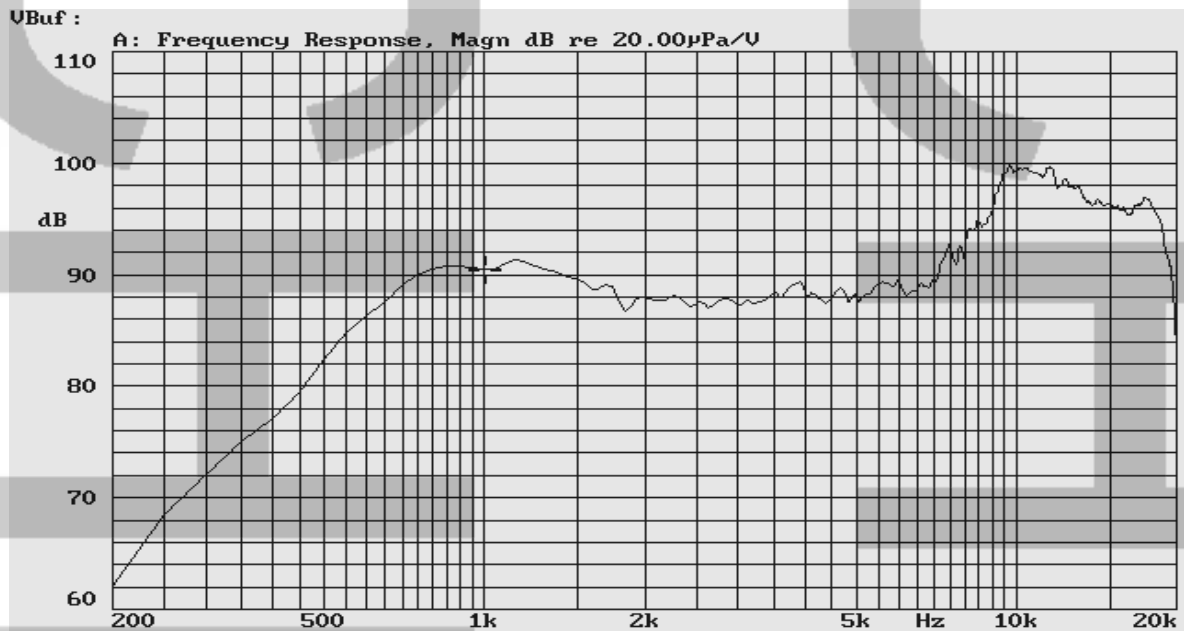


Fig.2 Typical frequency response curve (speaker mode)

NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
1					
2					
3					

4					
<b>SPECIFICATION</b>		MODEL NO.	Динамик		<b>P3/6</b>
ISSUED DATE	2012-6-2		13x18mm 8 Ohm 1W		
REVERSION	2005A	UPDATE	00		
<b>6. RELIABILITY TESTS</b>					
The sound pressure as specified shall neither deviate more than $\pm 3\text{dB}$ from the initial value, nor any significant damage after any of following testing.					
<b>6.1 HIGH TEMPERATURE TEST</b>					
High temperature:		+70 $\pm$ 2 $^{\circ}\text{C}$			
Duration:		96 hours			
<b>6.2 LOW TEMPERATURE TEST</b>					
Low temperature :		-40 $\pm$ 2 $^{\circ}\text{C}$			
Duration:		96 hours			
<b>6.3 HEAT SHOCK TEST (See in Fig.3)</b>					
High temperature:		+70 $\pm$ 2 $^{\circ}\text{C}$			
Low temperature:		-30 $\pm$ 2 $^{\circ}\text{C}$			
Changeover time:		< 30 seconds			
Duration:		1 hour			
Cycle:		50			
<b>6.4 HUMIDITY TEST</b>					
Temperature:		+40 $\pm$ 2 $^{\circ}\text{C}$			
Relative humidity:		90~95%			
Duration:		96 hours			
<b>6.5 TEMPERATURE CYCLE TEST (See in Fig.4)</b>					
Temperature:		-40 $^{\circ}\text{C}$		+70 $^{\circ}\text{C}$	
Duration:		45 minutes		45 minutes	
Temperature gradient:		1~3 $^{\circ}\text{C}/\text{min.}$			
Cycle:		25			
<b>6.6 DROP TEST</b>					
Mounted with dummy set mass:		100 g			
Height:		1.52 m			
Cycle:		6 (1 each plain) onto the concrete board			
<b>6.7 LOAD TEST</b>					
White noise for 96 hours @0.7W(2.37V) input power.					
NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
1					
2					
3					
4					

<b>SPECIFICATION</b>		MODEL NO.	Динамик	<b>P4/6</b>
ISSUED DATE	2012-6-2		13x18mm 8 Ohm 1W	
REVERSION	2005A	UPDATE	00	

■ HEAT SHOCK TEST (Fig.3)

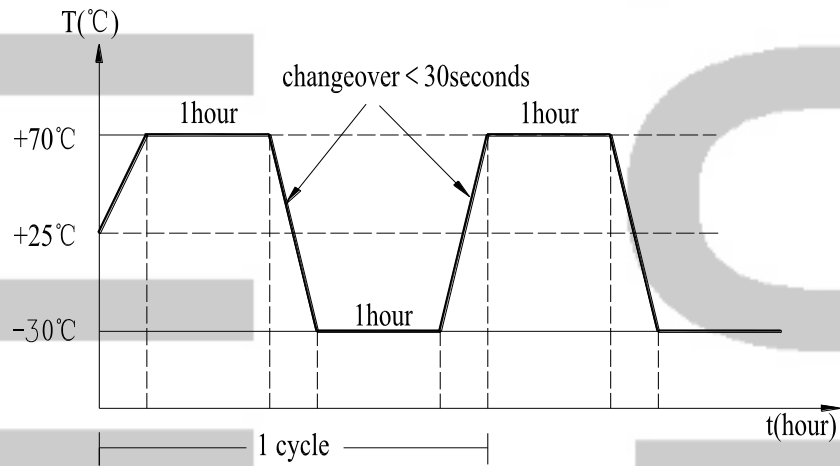


Fig.3 Illustration of heat shock test

■ TEMP. CYCLE TEST (Fig.4)

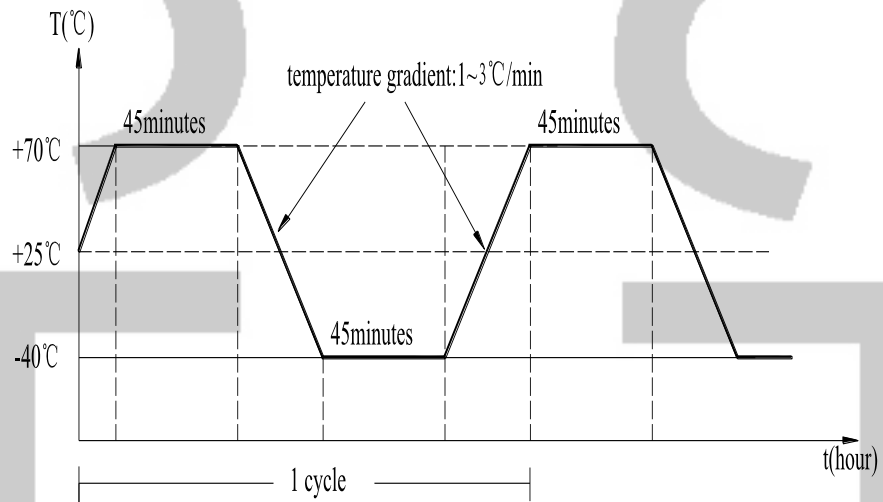


Fig.4 Illustration of temp. cycle test

NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
1					
2					
3					
4					

<b>SPECIFICATION</b>	MODEL NO.	Динамик	<b>P5/6</b>
----------------------	-----------	---------	-------------

ISSUED DATE	2012-6-2		<b>13x18mm 8 Ohm 1W</b>
REVERSION	2005A	UPDATE	00

**6. DIMENSIONS (Fig.5)** Unless otherwise specified, tolerance:  $\pm 0.2$  (unit: mm)

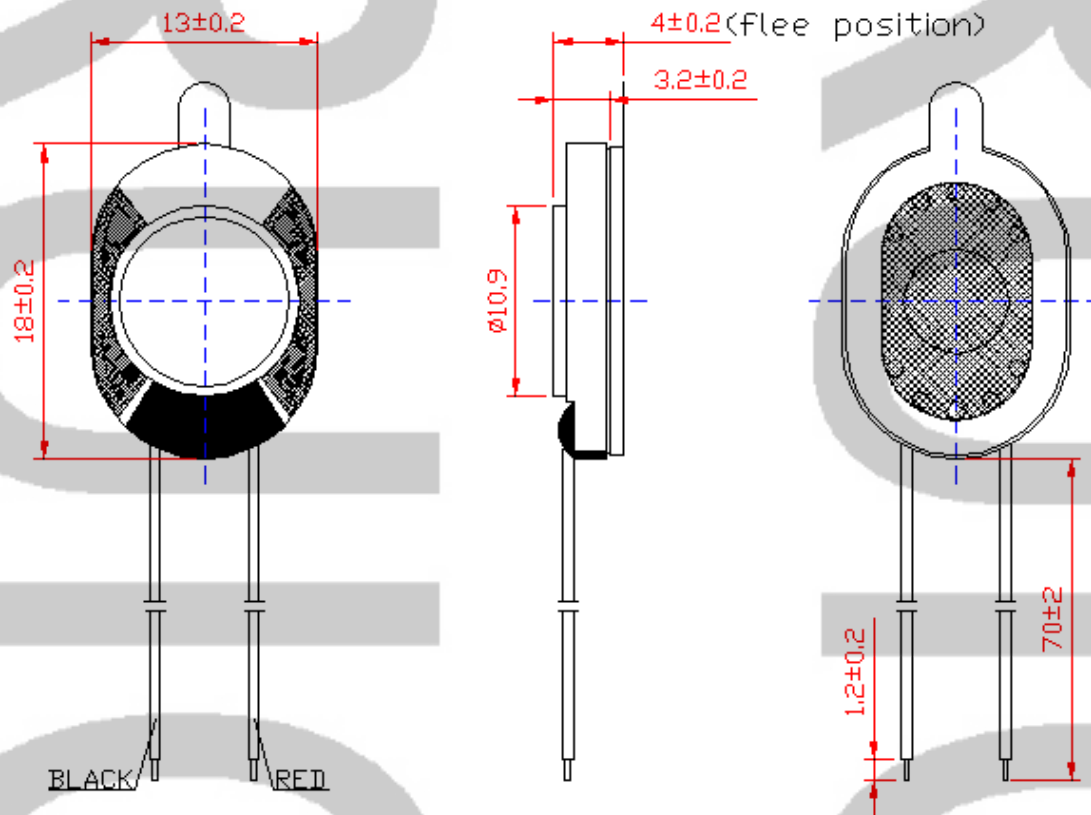


Fig.5 Outer dimension  
**BOM**

ITEM	DESCRIPTIONS	SPEC.	SUPPLIER	QTY	REMARK
1	Front cover	1Cr18Ni9,8 0.12	YONGXIN El. Co.	1	
2	Diaphragm	PEN	KIDI El. Co.	1	
3	Voice coil	( Self-bonding wire)	JIAYE (Daikoku)	1	
4	Inner pole plate	(08F)	YONGXIN El. Co.	1	
5	Magnet	(Nd-Fe-B,N38)	San Huan (China)	1	
6	Outer pole shoe	08F	YONGXIN El. Co.	1	
7	Yoke assembly	PBT	GANYAO (self-made)	1	
8	Lead wire	UL1571,AWG32	Shenzhen Wenli El. Co.	2	
9	Adhesive foam ring incl. mesh screen	PORON	Jiu Tai Precision El. Co.	1	
10	Dust screen	Cloth(BLACK,1035)	Jiu Tai Precision El. Co.	1	

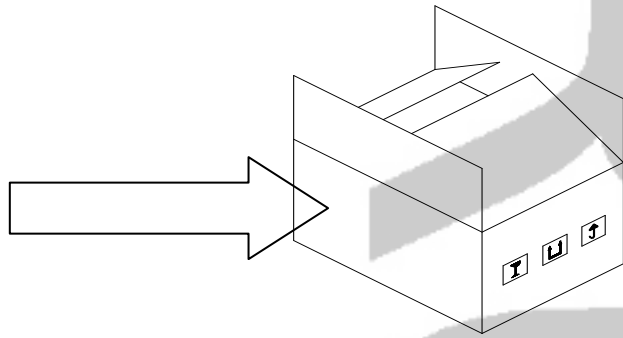
NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
1					
2					
3					
4					

<b>SPECIFICATION</b>		MODEL NO.	Динамик <b>13x18mm 8 Ohm 1W</b>	<b>P6/6</b>
ISSUED DATE	2012-6-2			

REVERSION	2005A	UPDATE	00
-----------	-------	--------	----

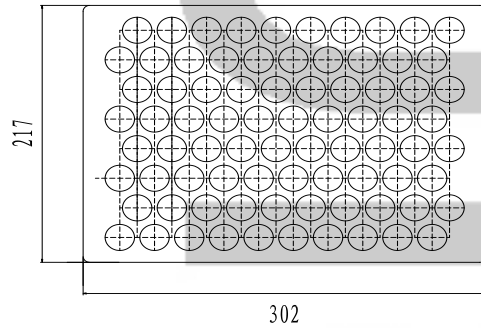
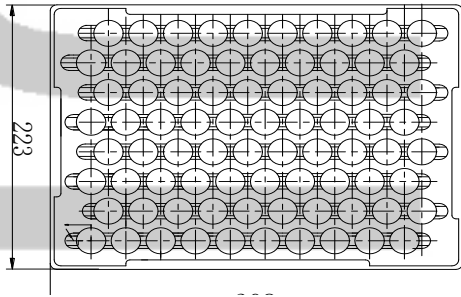
**7. PACKING DETAILS (Fig.6)**

DYNAMIC SPEAKER  
 TYPE: DYS131801L70-001  
 QUANTITY: 2500PCS  
 GROSS WT: 4.8KG  
 NET WT: 3.6KG  
 VOLUME: 34×24×20.5 CM



**DRAWING OF PS (POLYSTYRENE) TRAY (BOTTOM) (TOP)**

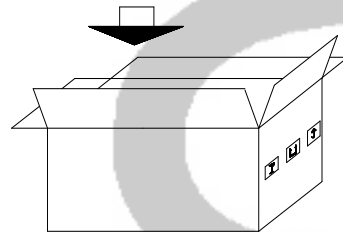
**DRAWING OF PS (POLYSTYRENE) COVER**



(unit: mm)

**【NOTE】**

1. 100 pcs of receiver in each tray;
2. 25 trays in one paper box.



*Fig.6 Illustration of packaging & marking*

NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
1					
2					
3					
4					

**THE END**