

OBO.Pro.2	SPECIFICATIONS	MODEL NO. OBO-36016F-02
	PART NAME DYNAMIC SPEAKER	SHEET 1 OF 7

ALTERNATION HISTORY

Marking	Date	ECN NO.	REV.	Description	Page	PREPARE BY	APPROVE BY
※1	JUN,04,2006	DG0606003	D	1. Change to RoHS Type	7	蔡愛國	K.C.Wang <i>[Signature]</i>

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REV.	DATE	PREPARED BY	CHECKED BY	APPROVED BY
D	JUN,04,2006	蔡愛國	K.C.Wang	K.C.Wang <i>[Signature]</i>

OBO.Pro.2**SPECIFICATIONS****MODEL NO.**
OBO-36016F-02**PART NAME**
DYNAMIC SPEAKER**SHEET**
2 OF 7**MODEL NO : OBO-36016F-02**OBO PRO.2 INC.
2006 JUN 19.
文件发行**Features:** Conformity RoHS Directive(2002/95/EC) Requests.(*)**1. General Specifications**

Items	Spec.
Magnet	Materials NdFeB Size: $\phi 12.5 \times 1.5 \text{mm}$
Weight	Approx 8.5 Grams
Nominal Impedance	16 Ohm \pm 15% At 1000 Hz / 1.0V
Power Rating	Normal 0.5W. Maximum 1.0 W.
Lowest Resonant Frequency	530 \pm 150 Hz.
Output Sound Pressure Level (S.P.L)	85 \pm 3dB 0.5W 0.5Meter Average at 1000,1200,1500,2000Hz (Secundum IEC318 Statute)
Frequency Range	350~ 11000 Hz. Average SPL-10 dB.
Distortion	5% Maximum At 1000Hz. 0.5W.
Abnormal Sound Test	Must be Normal Tested by 2.83Volts. Sine Wave.
Polarity	Diaphragm shall move Forward when Apply a Positive DC Current to the "+" or "Marked" Terminal.
Operating Temperature	-25°C to +50°C
Storage Temperature	-25°C to +55°C

2. Environmental Test

Humidity Test	High Temperature	:	+40°C \pm 3°C
	Relative Humidity	:	90% ~ 95%
	Duration	:	96 Hours
	Duration of recovery	:	6 Hours
Temperature Cycle Test	Temperature	:	+55°C \rightarrow +25°C \rightarrow -25°C \rightarrow +25°C
	Duration	:	1Hour 1Hour 1Hour 1Hour
	Cycle	:	3 Cycles
Vibration Test	Vibration Direction	:	3 axes
	Mounting	:	Unit Shall Be Rigidly Restrained On The Table
	Frequency	:	1,000 Cycle/Minute
	Amplitude	:	1.5m/m
	Endurance	:	1 Hour in Each Plane
	Duration of Transfer Time	:	Less Than 5Minutes
Load Test	White Noise With Weighted Filter 2.83Volts.(RMS) 100 Hrs. 20~20,000Hz Resonant Frequency.		
Drop Test	75cm Free Falling On Concrete Floor, with 10 times.		

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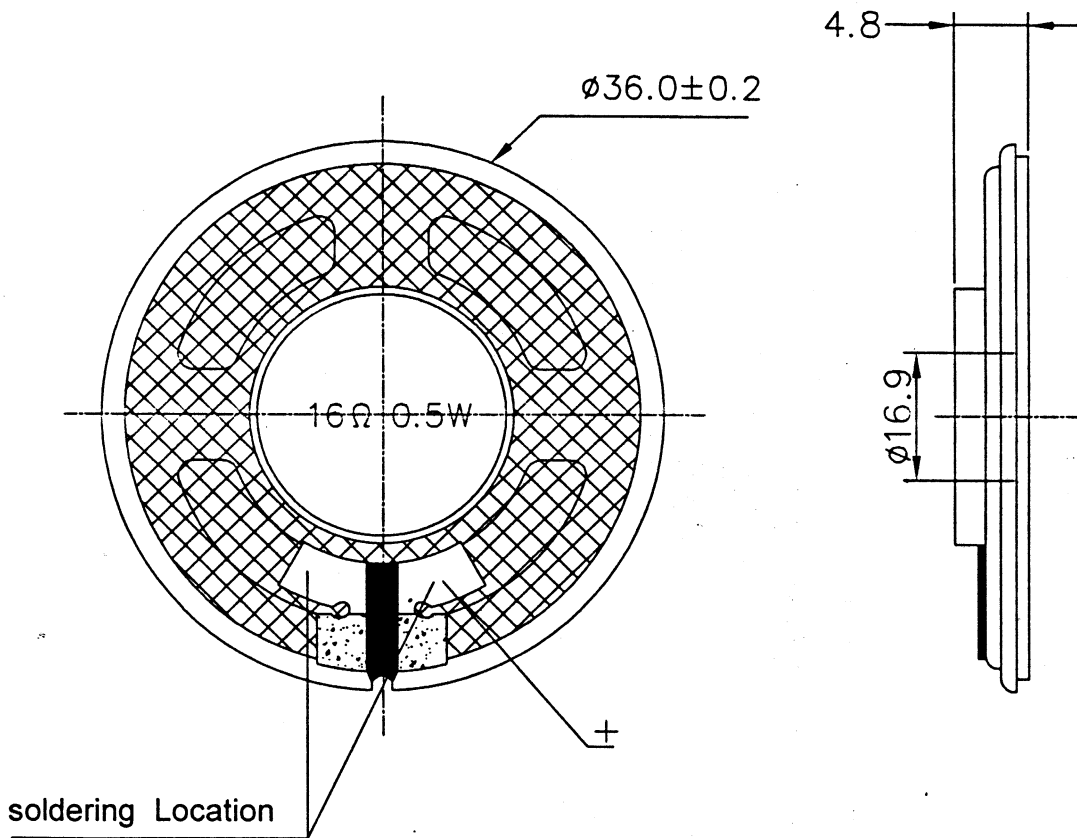
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3. Mechanical Layout And Dimensions

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3.1 Dimensions

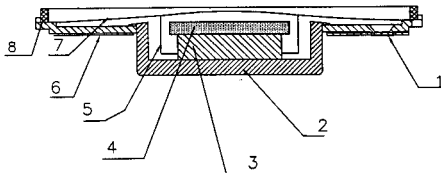
Unit:mm Tolerance:±0.3



※1 PCB Soldering Temperature 380° Max For 3 Seconds.

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OBO-36016F-Q2**PART NAME**
DYNAMIC SPEAKER**SHEET**
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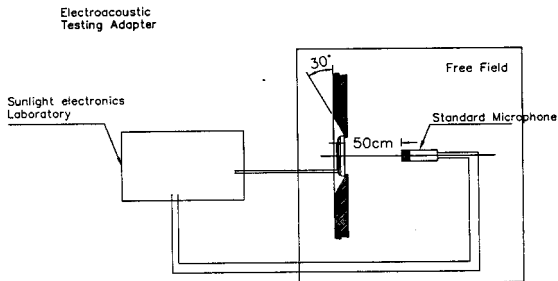
3.2 Construction Diagram

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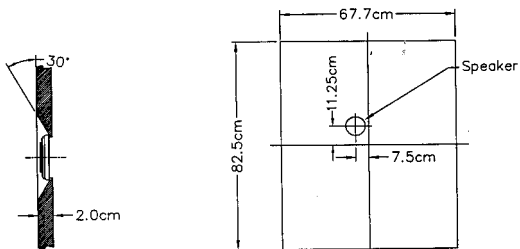
9			
8	GASKET	ABS	1
7	DIAPHRAGM	MYLAR	1
6	CLOTH	CLOTH	1
5	VOICE COIL	DIA13.28mm	1
4	WASHER	SPCC	1
3	MAGNET	NdFeB	1
2	YOKE	SPCC	1
1	TERMINAL	P.C.B	1
NO	PART NAME	MATERIAL	Q'TY

4. Test Method2006 JUN 19
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4.1 Measurement Diagram



4.2 Standard Baffle



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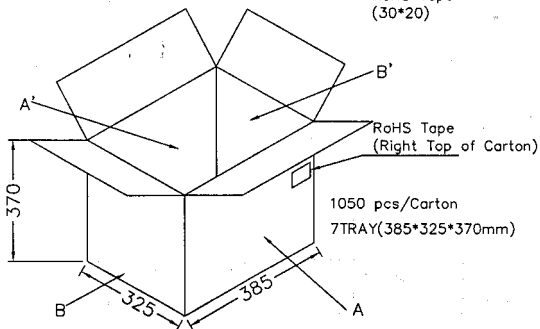
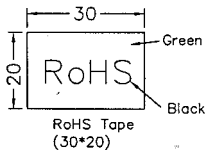
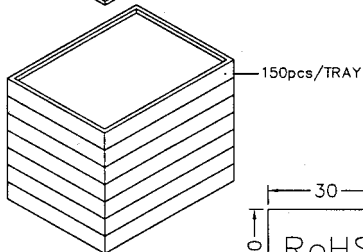
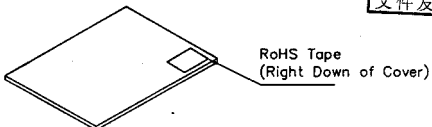
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※1 5. Package

Unit: mm

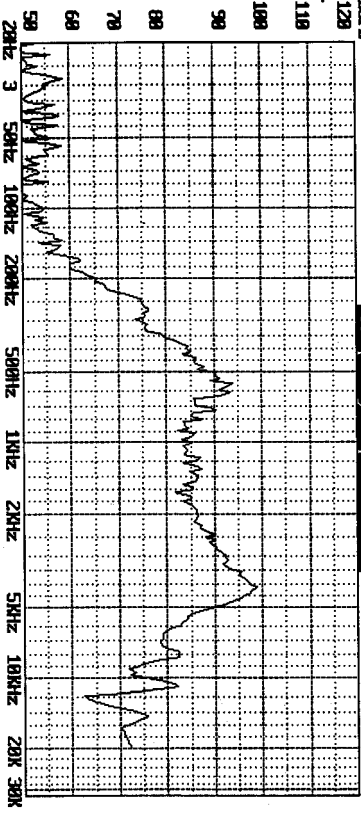
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Firm: 080-36016F-02 Model: 080-36016F-02 DATE: 06-03-2006 TIME: 19:47:37
 1000Hz Sens. = 85.4dB SPL Pass F.R.: Pass DCR: 17.112 Pass
 Average SPL: 85.4dB SPL Pass (1000:1200:1500:2000Hz) Sweep Speed: 1/24 Oct.

dB SPL Frequency Response curve



Voltage applied for **F.R.** = 2.830V **Start F.** = 20Hz **Stop F.** = 20000Hz
 Measuring Distance = 0.50M

Mfg.: 080-36016F-02

Measured using Sunlight 1600: Fax: 006-2-22230727