

KLS ELECTRONIC CO., LTD

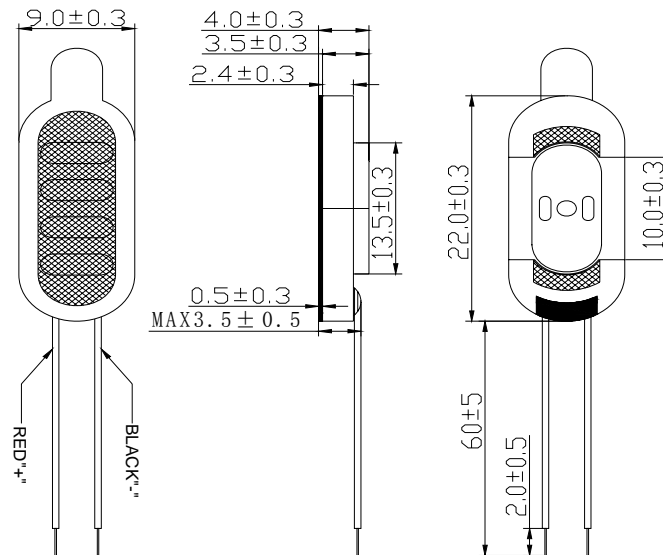
SPECIFICATION

	Model	L-KLS3-YS-22009-R8W1.0-L60		
1	Type	Dynamic Speaker		
2	Dimension	Outline Dimension Shall Be As Shown In Fig(1).		
3	Weight	Approx 1.4 Grams.		
4	Magnet	Material	Nd-Fe-B	
5	Impedance	8 ± 15% Ohm at 1500Hz. 1V		
6	Power Rating	Normal	1.0W	Maximum 1.2W
7	FO	1000±20% Hz at 1V		
8	S.P.L.	93±3dB/1.0Watt 0.1Meter. Average At1000,1200,1500,2000 Hz.		
		Measurement Method Shown In Fig(2).		
9	Frequency Range	550~20,000Hz.Average SPL-10dB. Frequency Response Fig (3).		
10	Distortion	10% Maximum At 1500Hz.1.0W.		
11	Abnormal Sound Test	Must be Normal Tested by 2.83 Volts. Sine wave for50~5kHz		
12	Polarity	Diaphragm Shall Move Forward When Apply a Positive DC.		
		Red "+" or" Marked" Terminal		
13	Operating Temperature	-20 °C to +65 °C		
14	Storage Temperature	-25 °C to +65 °C		
15	Reliable Test	After any following test leave speakers at room temperature for 1 hour, SPL shall not deviate by 3 db from initial value		
15-1	Load Test	white noise for 96 hours at 1.0 W input power.		
15-2	High Temperature Test	+65±2 °C 96hours		
15-3	Low Temperature Test	-25±2 °C 96hours		
15-4	Humidity Test	+40±2 °C relative humidity 90~95%R.H 96hours		
15-5	Vibration Test	Frequency 30 15 Hz, Amplitude 1.5 mm for 2 Hours per axis(x. y. z axis)		
15-6	Drop Test	75 CM free falling on Concrete floor, 10 times.		
15-7	Temperature Cycle test	- 25~ + 65 °C 5 Cycles Temperature test.		
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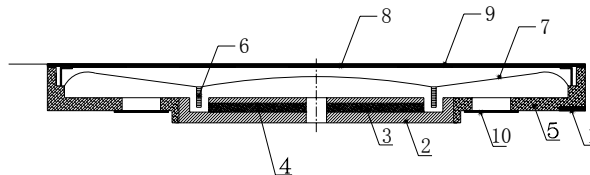
SPECIFICATION

16: Drawing(Fig1) Unit: mm Tolerance:±0.3mm



WIER:UL1571AWG30#

17. Speaker Construction



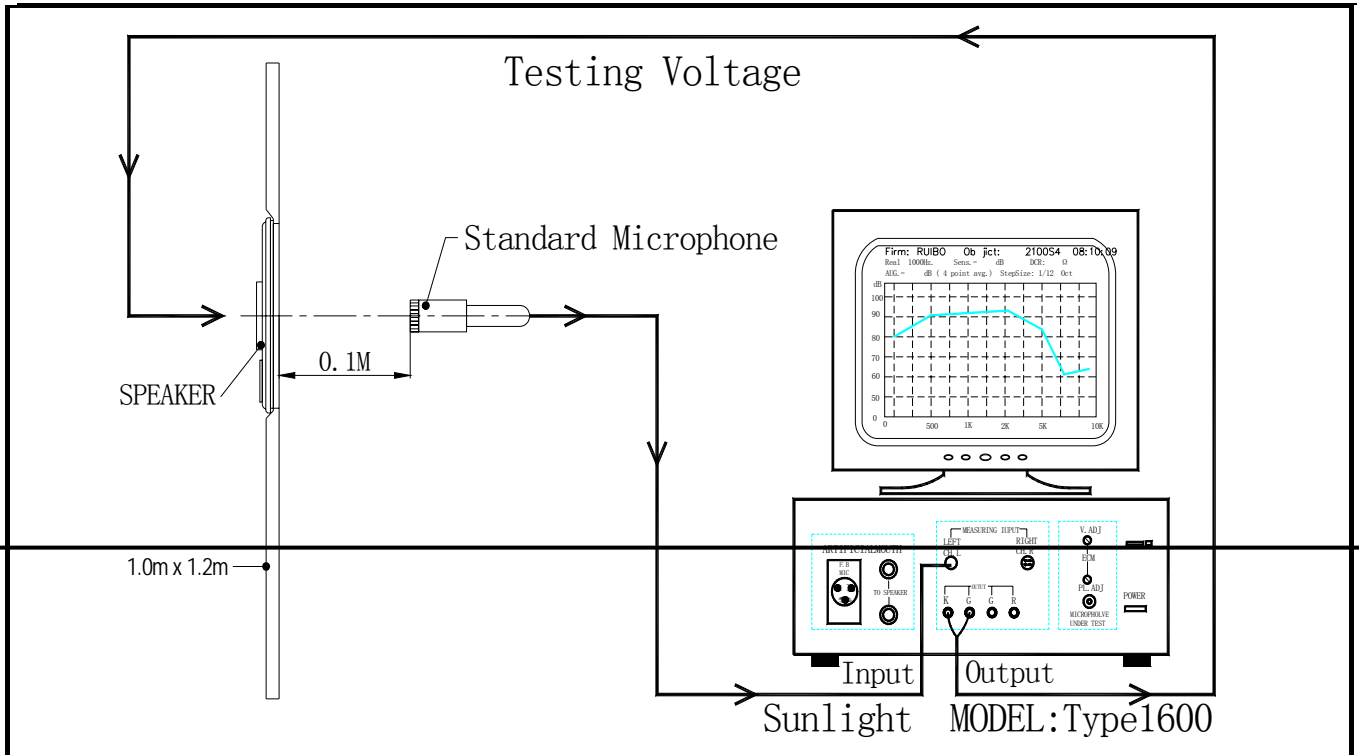
NO	PART NAME	MATERIAL	Q'TY
1	TERMINAL	FR-4	1
2	YOKE	SPCC	1
3	MAGNET	Nd-Fe-B	1
4	WASHER	SPCC	1
5	FRAME	PBT	1
6	VOICE COIL	DIA11.0×3.9	1
7	DIAPHRAGM	PEN	1
8	COVER	SPCC	1
9	EVA	EVA	1
10	CLOTH	CLOTH	2

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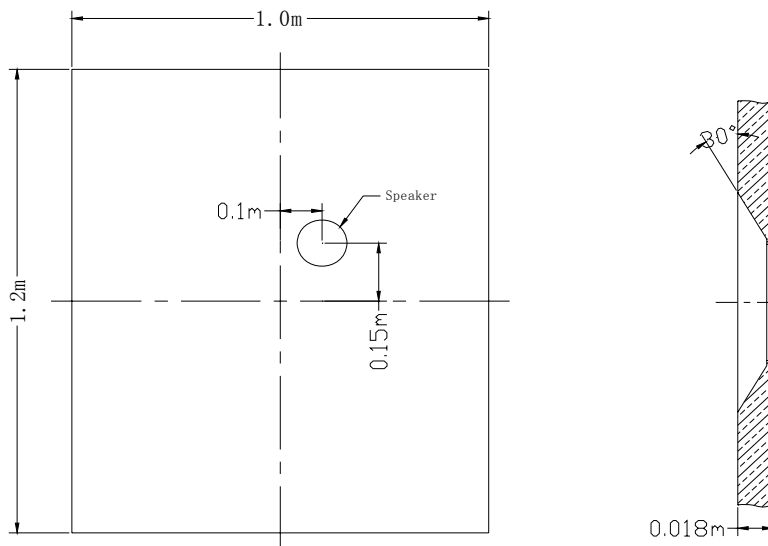
18.Measurement Method Fig(2).

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19. Test baffle Diagram



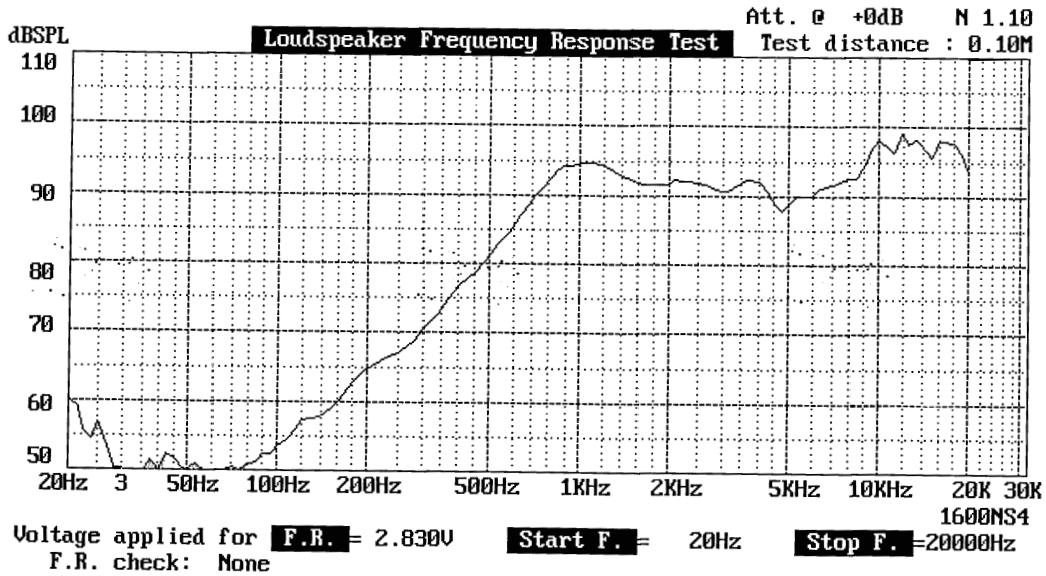
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20.Frequency Resonance Fig (3).

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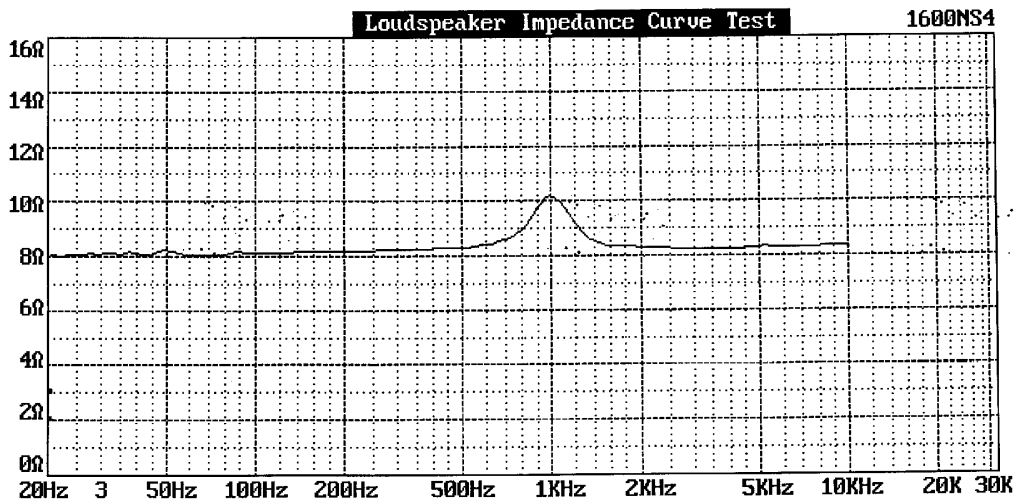
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Firm:1 Model:1 DATE:09-06-2012 TIME:18:24:04
 Real 1000Hz Sens.= 94.5dB SPL Pass F.R.: Pass DCR: 9.45Ω Pass
 Average SPL= 93.2dB SPL Pass (1000;1200;1500; 2000Hz) Sweep Speed: 1/12 Oct.



21. AC Impedance curve

Firm:1 Model:1 DATE:09-06-2012 TIME:17:20:48
 Start Freq. = 20Hz Stop Freq. = 10000Hz Sweep Speed: 1/12 Oct.
 ACV = 1.000V ACZ = 8.43 Ω @ 1504Hz. (Real)
 Fo = 1001Hz; Qm = 2.89; Qe = 9.11; Qt = 2.19; DCR = 7.86Ω



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