



# Speaker

**52.0 × 33.0 mm**

**With 105 mm wires**

**NC52W33DF8**

## Revision

<b>Date</b>	<b>Version</b>	<b>Status</b>	<b>Changes</b>	<b>Approver</b>
2018/5/14	V0.1	Draft	Initial release	AX
2018/06/12	V0.2	Draft	Add packing information	AX
2019/02/21	V0.3	Draft	Add the parameter of wire and print code	AX
2019/09/09	V0.4	Draft	Update package information	AX
2020/2/25	V0.5	Released	Update stripped wire size	AX

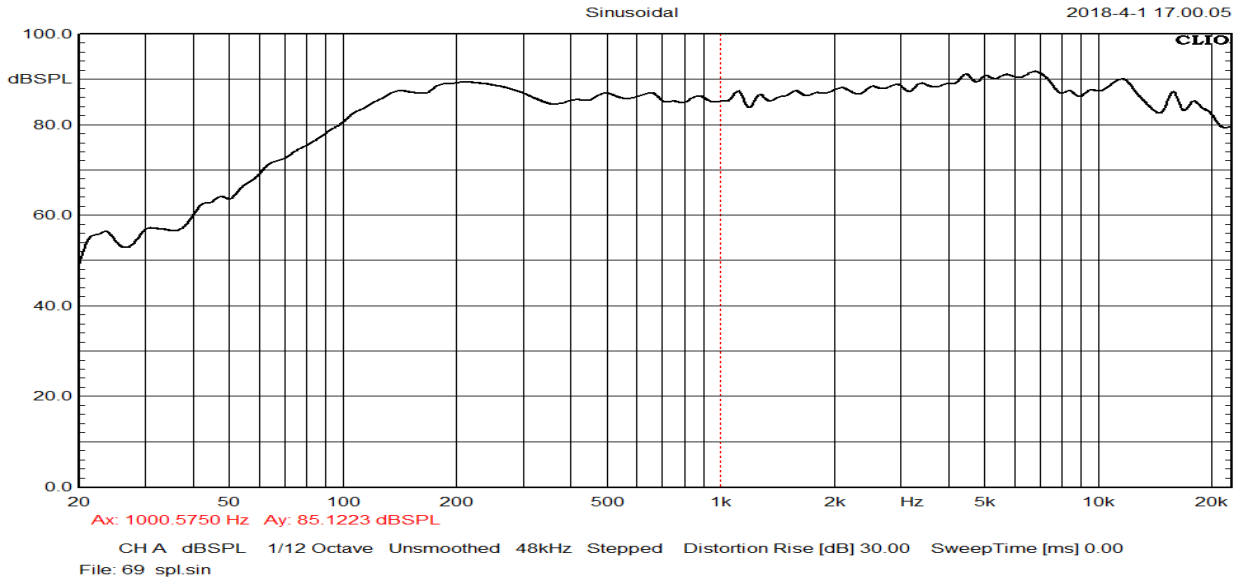
## Specifications

NO	项目 Items	规格 Specifications	测试条件 Test Conditions
1	口径 Size	Φ 52.3 * 33 H mm	
2	类型 Use Type	全音	盆架材质 Frame Material 铁
3	磁铁规格 Magnet SPEC	<input checked="" type="checkbox"/> Ferrite Φ 45 * 22 * 8 H <input type="checkbox"/> Nd-Fe-B	
4	磁束密度 Gap Flux Density	Gauss	
5	阻抗 Impedance	8.0 Ω ±15% (At700Hz, 1.0v with CLIO)	
6	输入功率	额定功率 Rated Power: 3 W	100 hrs
7	Input Electronic Power	最大功率 Max Power: 5 W	30 min
8	最低共振频率 Resonant Frequency	<input checked="" type="checkbox"/> FO: <u>160</u> Hz ± 20% <input type="checkbox"/> FB: <u>    </u> Hz ± 20%	Input 1v with CLIO
9	输出音压 Sound Pressure level	85±3dB AT 0.5M / 1W on Axis Calibration ,at frequency1000Hz,	
10	实效频率范围 Effective Freq.Range	F0~20KHz deviation -10DB	Input 1w with CLIO
11	极性 Polarity	When a positive current is supplied from speaker terminal marked "+",and a negative to the other terminal, The diaphragm must move forward	
12	最大振幅 Maximal amplitude	MM	额定功率 Rated Power
13	动作试验 Operation Test	Must be normal at program Source	3 W
14	纯音检测 Buzz and Rattle	Must be normal at Sine Wave	4.9V At 120Hz~10KHz Sine wave
15	失真率 Distortion	≤6% AT 160-300 Hz ≤4% AT 300- 7K Hz	0.5M / 1.6W
16	重量 Total Weight	130G	
17	备注:		

实验测试项 Reliability Test

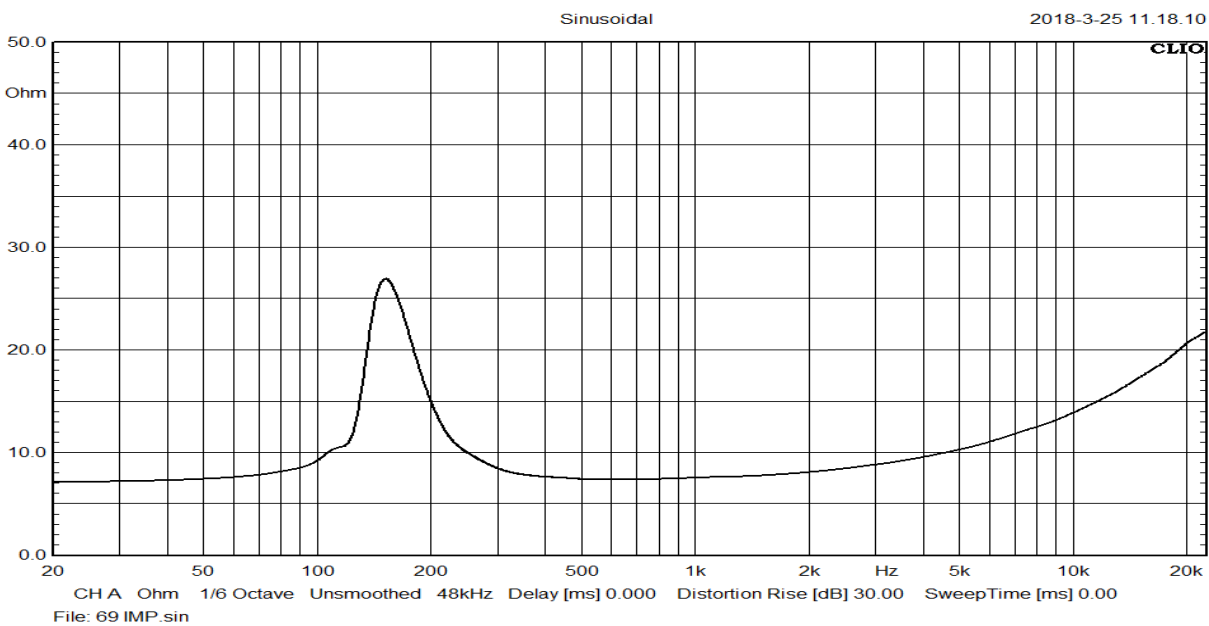
No.	Item	Standard	Test Conditions
1	Loading Test	TPV Standard	White Noise, 4.9V, with 50°C Test for 100 Hours , At 120 Hz~ 8 KHz
2	Max Power Test	IEC-60268/GB 9396	White Noise, 6.32V, 1min ON, 2mins OFF, Duration=30mins
3	Dry Heat test	IEC-60268/GB 9396	75±2°C 20~50% R.H. 96 Hours
4	Humidity Test	IEC-60268/GB 9396	40±2°C 90~95% R.H. 96 Hours
5	Cold Test	IEC-60268/GB 9396	-25±3°C 90%~95%R.H. 96 Hours
6	Temperature Cycle Test	IEC-60268/GB 9396	<p>Ta= -25°C(1H)., Tb=75°C(1H) Number of Duration: 5 cycles</p> <p>The diagram illustrates a temperature cycle test. It starts at Room Temperature (25 °C). A ramp of 5 minutes leads to 75 °C, where it stays for 1 hour. A ramp of 10 minutes leads to -25 °C, where it stays for 5 minutes. A ramp of 1 hour leads back to Room Temperature (25 °C). This entire sequence is labeled as 1 Cycle.</p>
7	Salt Spray Test	IEC-60268/GB 9396	Temperature: 35°±1 Consistency: 5% For 24 hours
8	Drop Test	IEC-60268/GB 9396	<p><b>Speaker:</b></p> <p>The diagram shows a drop test setup. A speaker is mounted on a slide board that is 1 Meter high. The board is tilted at an angle of 75° +/- 2°. The board is supported by a Steel Stopper on Solid Ground. An arrow indicates the Direction of Motion.</p> <p><b>Speaker System:</b> 75 cm free falling on concrete floor / 3 of the edges and 6 faces / Each item 1 drop.</p>
9	Vibration Test	IEC-60268/GB 9396	10 to 50 Hz within 1min / Amplitude 1.5mm / Duration: 30minutes in each of 3 axes.

Product Frequency response curve

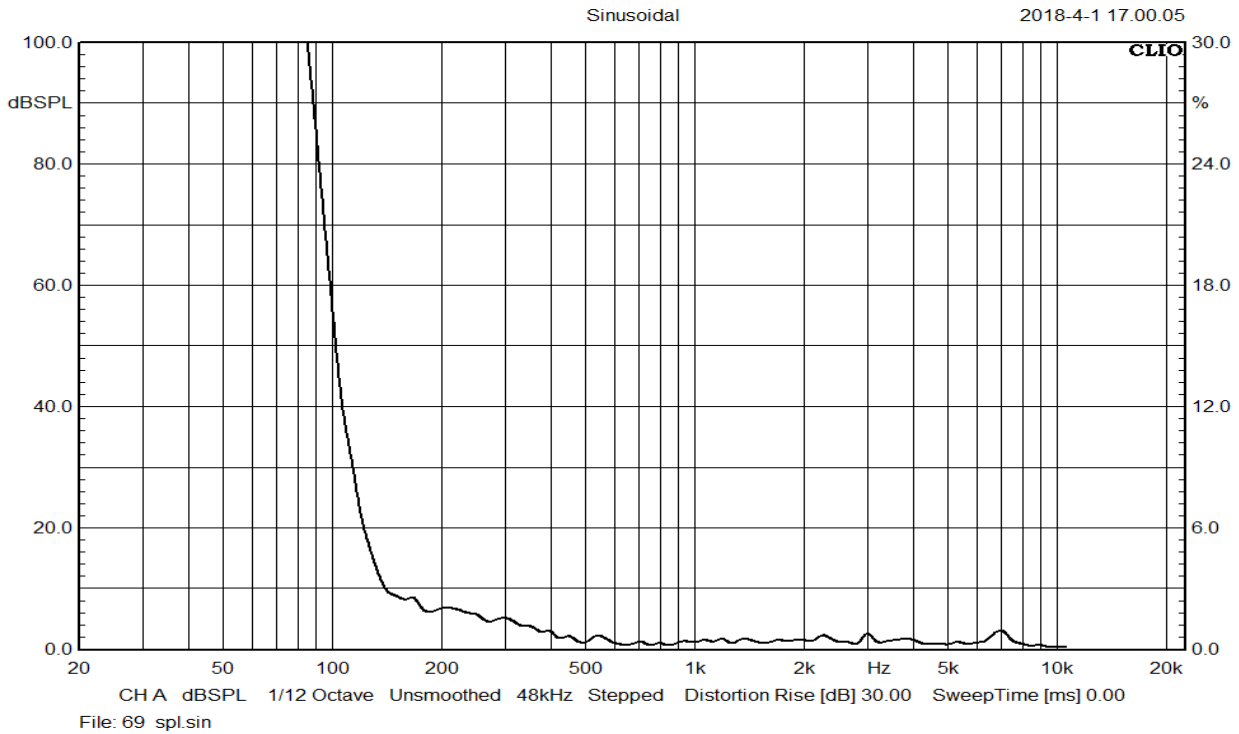


频宽(HZ )	160-200	201-400	401-3000	3001-6000	6001-8000
上限	+4dB	+5dB	+3dB	+4dB	+5dB
下限	-4dB	-3dB	-3 dB	-3dB	-3dB

Product Impedance curve



Product Impedance curve



TS 参数

Electrical Parameters

Re	6.65	Ohm
Le	0.154	mH
L2	0.108	mH
R2	1.22	Ohm
Cmes	214.8	微
Lces	4.42	mH
Res	19.04	Ohm
fs	163.3	Hz

Loss factors

Qtp	1.088
Qms	4.196
Qes	1.467
Qts	1.087
Vas	0.2303 l
n0	0.066 %
Lm	80.38 dB
Lnom	81.18 dB

Mechanical Parameters

(using laser)

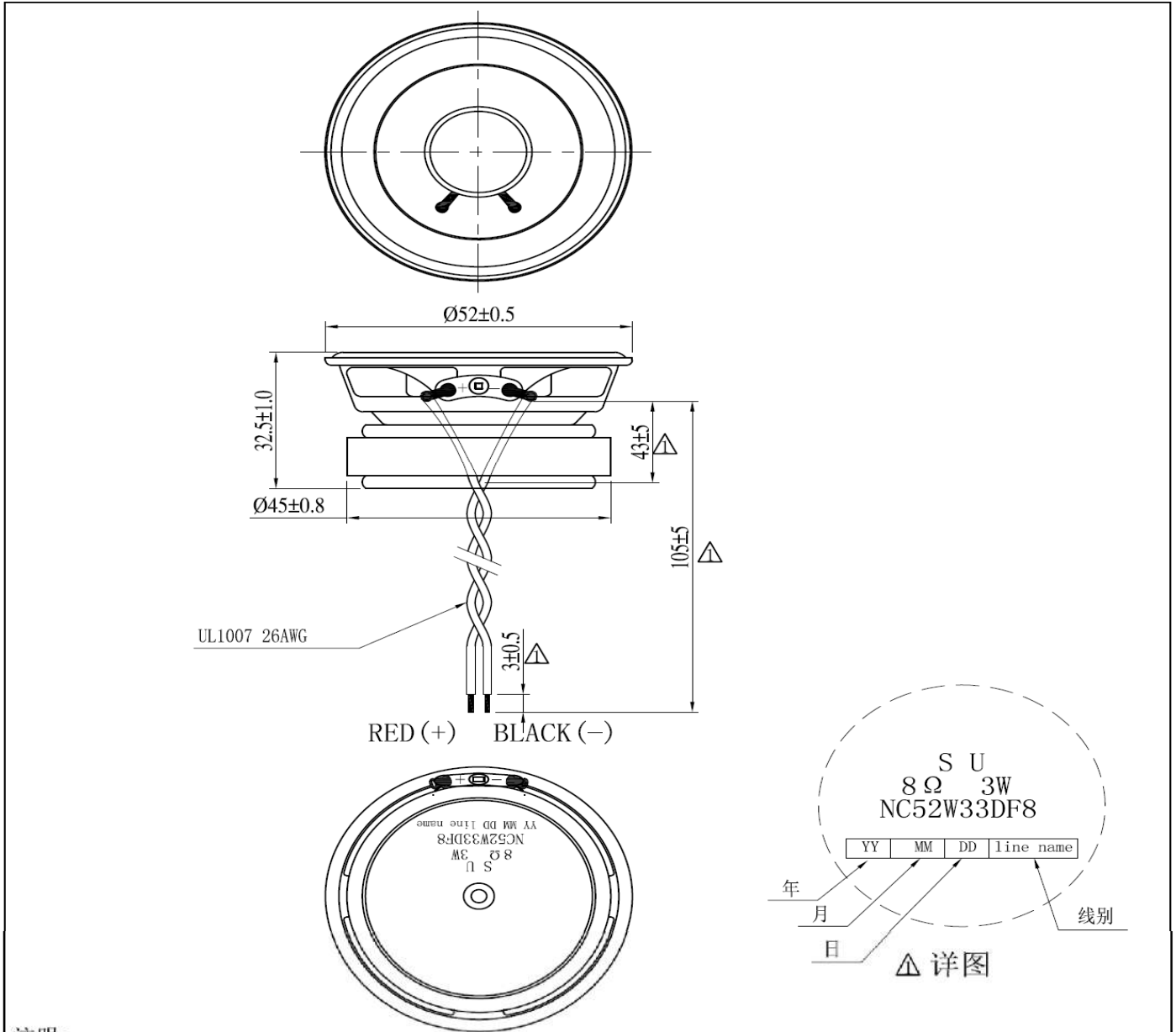
Mms	1.017	g
Mmd (Sd)	0.99	g

rmse Z	1.9 %
rmse Hx	1.97 %

Series

Rms	0.249	kg/s	resistor	0	Ohm
Cms	0.933	mm/N	Sd	13.2	cm
Kms	1.07	N/mm			
B1	2.176	N/A			
Lambda s	0.1				

**Mechanical Characteristics:**



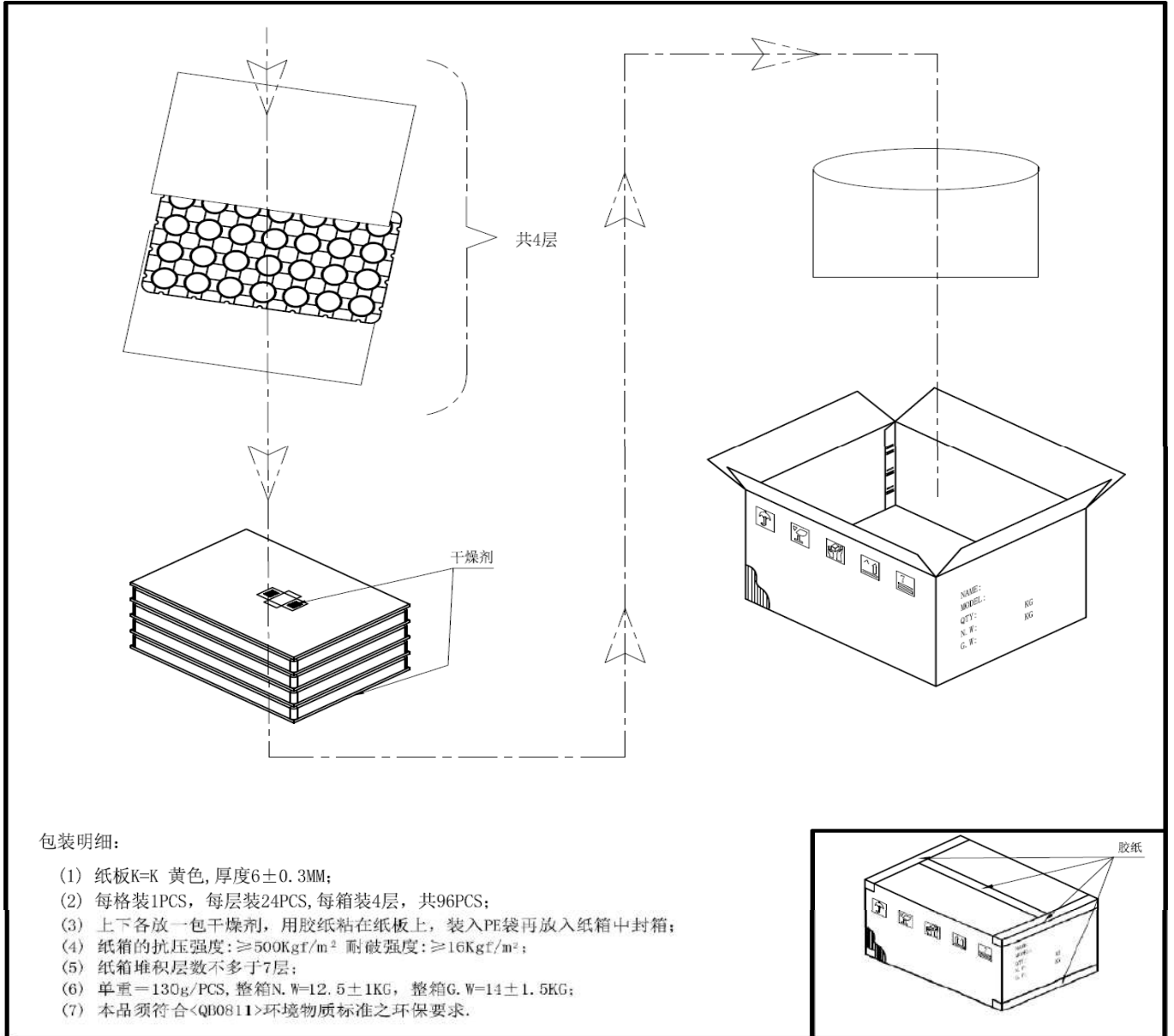
注明:

(1). 本品须符合<QB0811>环境物质标准之环保要求;

5				品名/TITLE			OUTLINE DRAWING	
4				喇叭			外观图	
3				客户/CLIENTELE			版次/REV.	AB
2	△ <sup>x4</sup>	修改线材规格、贴纸详图	2020/02/26	麻月赐				
1		图面初版式发行	2017/09/15	滕高尚				
NO.	变更/REVISIONS		DATE	NAME	SCALE	FIT	SHEET 1 OF 1	DRAW. DATE 2020/02/26
一般公差	L ≤ 5	±0.05	250 < L ≤ 400	±0.40	核准/APVD	审核/CHK	绘图/DRAW	设计/DSGN
	5 < L ≤ 30	±0.15	400 < L	±0.50				
	30 < L ≤ 120	±0.20	角度/ANGLE	±0.2°				
	120 < L ≤ 250	±0.30	THIRD ANGLE PROJECTION:			料号/STUFF		
	单位/UNIT	mm				NC52W33DF8		

产品包装图:

Packing:



栈板图:

Shipment Form:

