

Round Loudspeaker Ø36×5.8mm

SOC36S05B8-1

Revision

Date	Version	Status	Changes	Approver		
2011 /07/21	V0.1	Draft	First release	LC		
2011/09/01	V0.2	Draft	Add per weight and testing condition	LC		
2020/04/30	V0.3	Draft	Update PCB	AX		
2020/5/6	V0.4	Draft	Update F0 tolerances	AX		

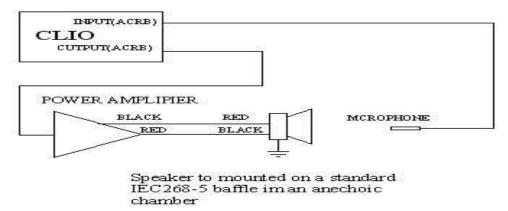
项目	规格 TEST SPECIFICATIONS		TIONS	测试条件 TEST CONDITIONS				
ITEMS 1、尺寸	Φ36 mm			TEST CONDITIONS 参照外形装配图				
DIMENSIONS		_	L O PLA	PER SPEAKER CONSTRUCTION DWG.				
	盆架 ● METAL ○ PLA BASKET ○ OTHER:							
	磁钢 MAGNET Φ12.5×1.5mm			○ FERRITE○ Al-Ni-Co○ OTHER:				
2、 主要材料 MAIN MATERIAL	纸盆 CONE	○全纸盆 PAPER ●		MYLAR OOTHER				
		○ 复合盆 COMPOUND	折环 SORROUND	□ RUBBER □ FOAM □ CLOTH □ PU □ OTHER:				
			锥体	□ PAPER □ MYLAR □ PP				
3、 总重量			CONE BODY	☐ OTHER:				
TOTAL WEIGHT	9.5± 2 g							
4、 功率 POWER	额定功率 NORMAL POWER : 1 W 最大功率 MAX POWER : 1.5 W							
5、 阻抗 NORMAL IMPEDANCE	8 Ω ± 15%			AT 1 KHz/1.0V				
6、 纯音检测 SINA SIGNAL OPERATION	THERE SHA	不允许有任何杂 LL NOT BE EXT	と音 RANEOUS NOISE	2.83 V/RMS FROM FO TO 10 KHz(≥0.3m)				
7、 共振频率 RESONANT REQUENCY	$380H_Z \pm 20\%$			AT 1.0 V, Constant Voltage				
8、 特性灵敏度 S.P.L.		$88 \text{ dB} \pm 3 \text{dB}$		AT 0.1W / 0.1 M@ (0.6/0.8/1.2/1.5KHz) Ave				
9、 频响范围 FREQUENCY RANGE	300Hz ∼ 20 KHz			AT 0.1W / 0.1 M, MAX : 20 dB				
10、IP 等级 IP LEVEL								
11、失真 THD	≤12%			FROM 600Hz-5kHz, 1W/0.1m				
12、 极性 POLARITY	THE CO	纸盆向正面移 NE SHALL MOV		正电流接于"+"上 WHEN APPLIE POSITIVE POTENTIAL TO THE ("+")				
13、 存储与运输 TRANSPORTATION AND STORAGE		ΓΙΕD TEMPERA nax=+60℃, Tmin						
NOTE: Above measuring	condition under	temperature: 15~3	35℃,R.H. 25 ~75%.					
ENDURANCE AND MECHA	NICAL TEST							
14、 连续负荷测试 LOAD TEST	WHIT	E NOISE 1 W AP	PLIED FOR 96 H					
15、高温测试 HIGH TEMPERATURE	$+60 \pm 3$ °C HUMIDITY RANDOM FOR 96 HOURS.							
16、低温测试 LOW TEMPERATURE	-25 ± 3 °C HUMIDITY RANDOM FOR 96 HOURS.							
17、潮湿测试 HUMIDITY	+ 40 ± 3	H) 90 ~ 95 % FOR 96 HOURS.						
NOTE: After test, leave s	peakers at room	temperature for 1	hour, and speakers	meet above item 5,6,7,8.				
18、跌落测试 DROP TEST SPEAKERS PROPERLY PACKAGED IN THEIR SHIPPING CARTON ARE DROPPED ON EACH SIDE OF THE CARTON EXCEPT THE TOP FROM A HEIGHT OF 80CM (CARTON GW≤10kG) OR 60CM (10kG <carton gw≤25kg)<="" td=""></carton>								
NOTE: After test, there s	hall be no buzz/r	attle and the spea	kers shall not exhibit	t any physical damage.				
19、环境有害物质控制 ENVIROMENT HARMFUL MATERIAL CONTROL	RoHS COM	IPLIANT						

Test method and User precaution

1. Characteristics measurement environment condition

- 1.1 Except other specified, measuring are under temperature 15~35℃, R.H. 25 ~75%, air pressure 86~106kPa.
- 1.2 Judgement condition temperature 20 ±2℃, R.H. 63~67%, air pressure 86~106kPa.

2. Output Sound Pressure Level (S.P.L.) and distortion testing setup



3. Endurance & Mechanical test:

3.1 Load test:

Speaker should not fail after applying $20 \sim 20 \, \mathrm{K}$ Hz white noise rated power input (RMS) for 96 hours, then leave the speaker at room temperature for 1 hour, speaker shall meet item 5,6,7,8.

3.2 High Temperature:

After exposure the speaker in the high temperature chamber on condition described as item 15 for 96 hours, then leave the speaker at room temperature for 1 hour, the speaker shall meet item 5,6,7,8.

3.3 Low Temperature:

After exposure the speaker in the low temperature chamber on condition described as item 16 for 96 hours, then leave the speaker at room temperature for 1 hour, the speaker shall meet item 5,6,7,8.

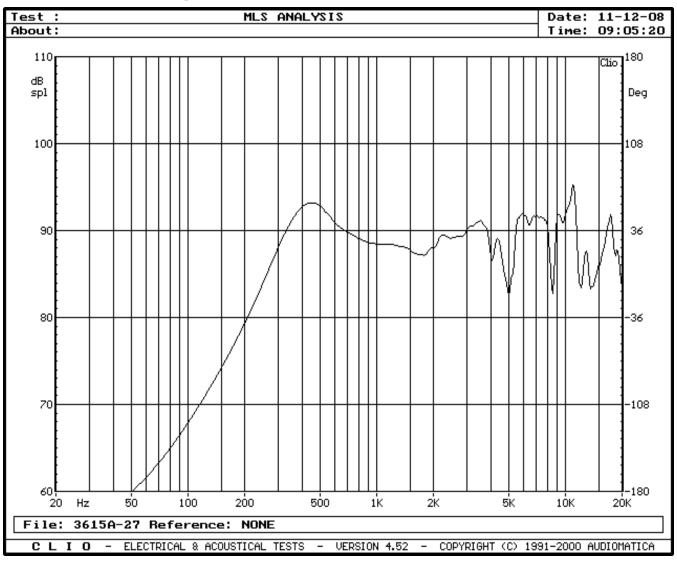
3.4 Humidity:

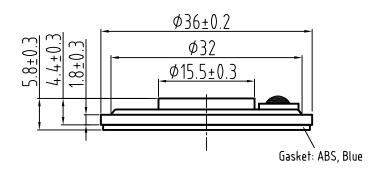
After exposure the speaker in the chamber on condition described as item 17, for 96 hours, then leave the speaker at room temperature for 1 hours, the speaker shall meet item 5,6,7,8.

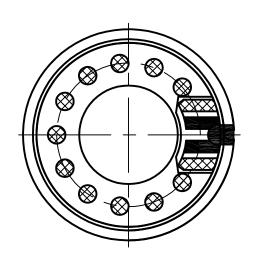
3.5 Drop test:

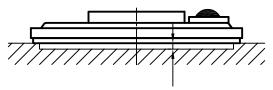
Speakers properly packaged in their shipping carton are dropped on each side of the carton except the top from a height of 80cm (carton GW≤10kg) or 60cm (10kg<carton GW≤25kg), after test, there shall be no buzz/rattle and the speakers shall not exhibit any physical damage.

TYPICAL FREQUENCY RESPONSE CURVES









At least 0.8mm for membrane moving. Condition:Sina wave signal input, max power.

		RoHS Compliant						
					Tolerance is not marked			
					below 6	±0.2	>6 to 30	±0.3
					>30 to 80	±0.5	>80 to 120	±0.8
					>120 to 250	±1.0	>250	±1.3
N0	Date	Description		Scale		1:1		
NAME	SPEAK	KER PN		SOC36S05B8-1				