

# SPECIFICATION FOR APPROVAL

## 承认书

Customer (客户) : \_\_\_\_\_

Product Name (产品名称) : Micro Dynamic Speaker

Zhenmei Part No. (臻美型号): MIML40J32-027

Specification (臻美规格) : 32Ω 10mW

Customer's Model No. (客户型号): \_\_\_\_\_

Specification No. (规格书编号): SQD40J32-027

Number of the edition (版本号) : A0

CUSTOMER'S APPROVED SIGNATURE 客户承认盖章

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臻美智能电子  
zhenmei smart electronics

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Approved by 核准	Checked by 审核	Issued by 制成





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## C、适用范围 SCOPE

This specification applies speaker, SQD40J32-027

此规格书适用于喇叭, SQD40J32-027

## D、GENERAL SPECIFICATIONS 一般规格

NO.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	$\phi 40 \times 7.3H$	
2	Rate/Max Power Rating 额定/最大功率		mW	Rate 10/Max20	Max. Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles(Room TEMP.)
3	Impedance 阻抗	$\Omega$	Ohm	$32 \pm 15\%$	
4	Output S.PL 输出音压	S.PL	dB	$107 \pm 3dB$	At 1KHz 60mV with IEC318 coupler
5	Frequency Rang		Hz	F0~4000	
6	Max Distortion 最大失真		%	10%	At 1.0KHz 10mW
7	Magnet Material 磁铁材质		mm	Nd-Fe-B	
8	Storage temp 贮存温度		$^{\circ}C$	-20~+50 $^{\circ}C$	
9	Operate temp 工作温度		$^{\circ}C$	-20~+55 $^{\circ}C$	
10	Buzze&Rattle 异常音				Not be audible at 0.6V sine wavebetween80HZ~4.0KHz 输入 0.6V 正弦波 80HZ 到 4.0KHz 之间无异常音
11	Protection Regulation 环保法规			RoHS	

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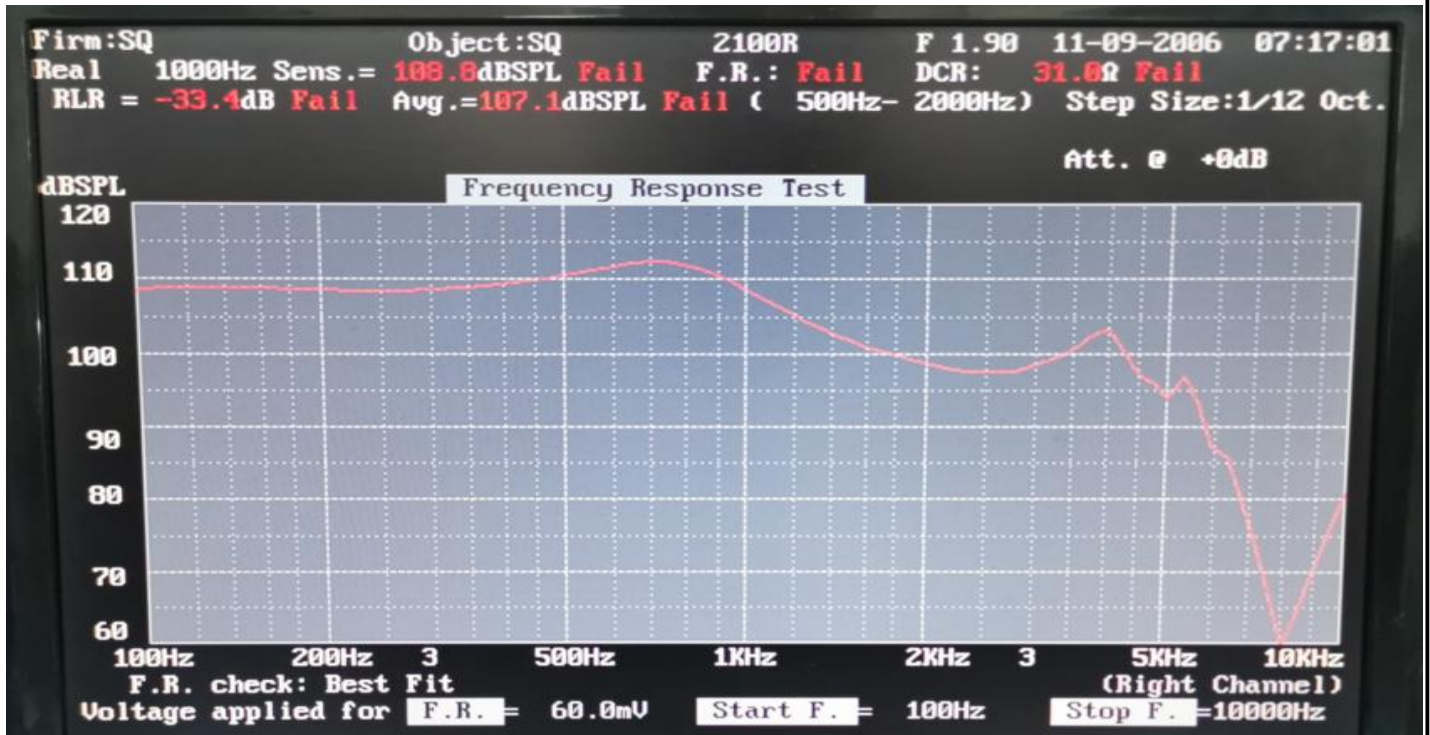
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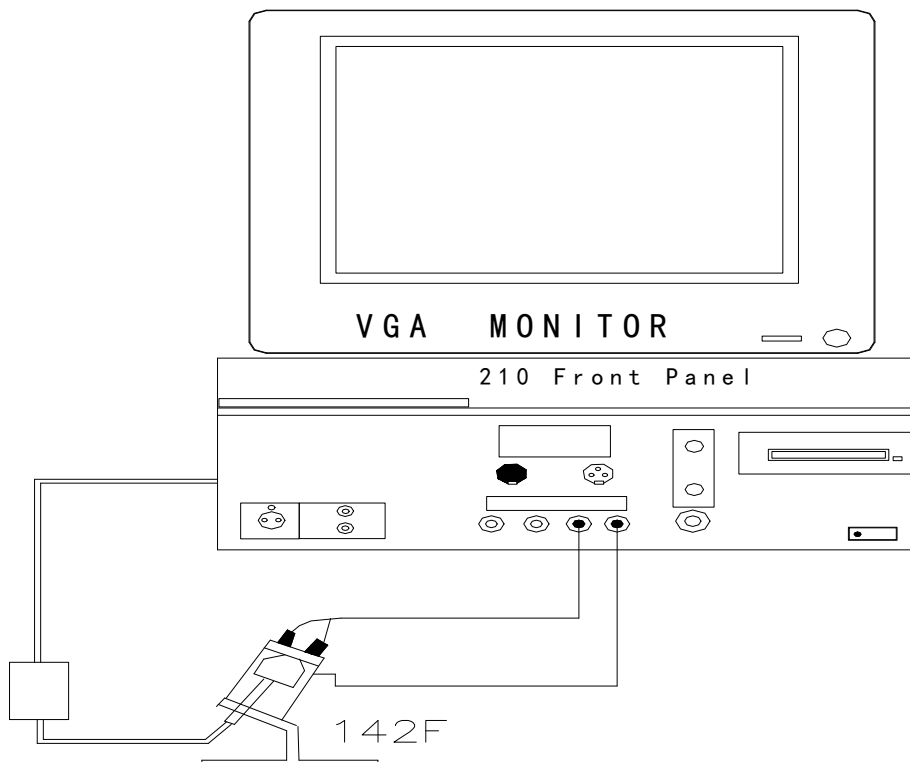
E、TYPICAL FREQUENCY RESPONSE CURVE

频率响应曲线



F、MEASUREMENT CIRCUIT

测量线路



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**G、MECHANICAL CHARACTERISTICS 机械特性**

NO	Item	Test condition	Evaluation standard
1	Vibration Test 振动测试	Speaker shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours. 振动周波数 10~55Hz, 全振幅 1.5mm 于 X, Y, Z 3 个方向各 2 个小时	No obstacle to be harmful to normal operation ; Damages,cracks,rusts and distortions. Should not be audible at 0.6V sinewave between 80HZ~4.0kHz
2	Drop Test 跌落测试	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm 将扬声器置于盒中, 自 75 公分高度落在 40mm 的木板上共 10 次	测试后无任何障碍妨碍正常操作, 且在输入 0.6V 正弦波从 80HZ 到 4.0KHz 之间无异常音。
3	Solderability 焊锡附着性 (connector excepted) 端子类不适合用此项	Stripped wire of lead wire are immersed in rosin For 5 seconds and then immersed in solder bath Of 270±5℃ for 3±0.5 seconds. 裸线部分浸入松香溶液 5 秒后, 再浸入 270±5℃ 熔融焊锡槽 3±0.5 秒,	90% min. stripped wires shall Be wet with solder.( Except the edge of terminal). 浸入裸线部分附着焊锡 90% 以上。(末端断面不算)
4	Lead Wire Pull Strength 线材拉力	The pull force shall be applied to double lead wire: Horizontal: 3. 0N(0. 306KG) for 30 seconds; Vertical: 2. 0N(0. 204KG) for 30 seconds. 双线材水平方向施以 3. 0N(0. 306KG) 的力量; 垂直方向施以 2. 0N(0. 204KG) 的力量, 各 30 秒	No damage and cutting off 线材不松动, 不脱落

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**H、RELIABILITY TEST 信赖性试验**

NO	Item	Test conditions	Evaluation standard
1	Load test 连续负荷	10mW white noise is applied for 24 hours,at room temp. 在室温下，输入功率 10mW ，白杂音连续操作 24 小时	Being placed for 1 hours at +25 °C ,speaker shall be measured,No obstacle to be harmful to normal operation;damages,cracks,rusts,etc.should not be audible at 0.6V sine wave between 80HZ~4.0KHz.Fo should meet intial one.S.P.L.deviation of unit should be within ±3dB 经测试后，静置于+25℃环境中 1 小时后，测试无任何障碍妨碍正常操作，且在输入 0.6V 正弦波从 80HZ 到 4.0KHz 之间无异常音，Fo 与原规格值相同，输出音压变化量在 ±3dB

**I、ENVIRONMENTAL TEST 环境试验**

No.	Item	Test conditions
1	High temp. test 高温测试	After being placed in a chamber at +55°C for 48 hours. 置于+55℃环境中 48 小时
2	Low temp. test 低温测试	After being placed in a chamber at - 20°C for 48 hours. 置于-20℃环境中 48 小时
3	Humidity test 相对湿度测试	After being placed in a chamber at +40°C and 90±5% relative humidity for 48 hours.置于+40℃，相对湿度 90±5%环境中 48 小时
4	Temp. cycle test 温度循环测试	Low temperature -20 °C ±2°C (2 hour )/ high temperature +55 ±2°C (2 hour ) : 1 cycle , total 10 cycles. Being placed for 6 hours at +25 °C ,receiver shall be measured. No obstacle to be harmful to normal operation ;damages, cracks, rusts and distortions, should not be audible at 0.6Vsine wave between 80HZ~4.0KHz. S.P.L. deviation of unit should be within ±3dB. 低温 (-20±2℃) 2 小时/高温 (55±2℃) 2 小时，1 次循环，10 个周期； 经测试后，静置于+25℃环境中 6 小时后，测试后无任何障碍妨碍正常操作，在输入 0.6V 正弦波从 80HZ 到 4.0KHz 之间无异常音，Fo 与原规格值相同，输出音压变化量在 ±3dB 内。

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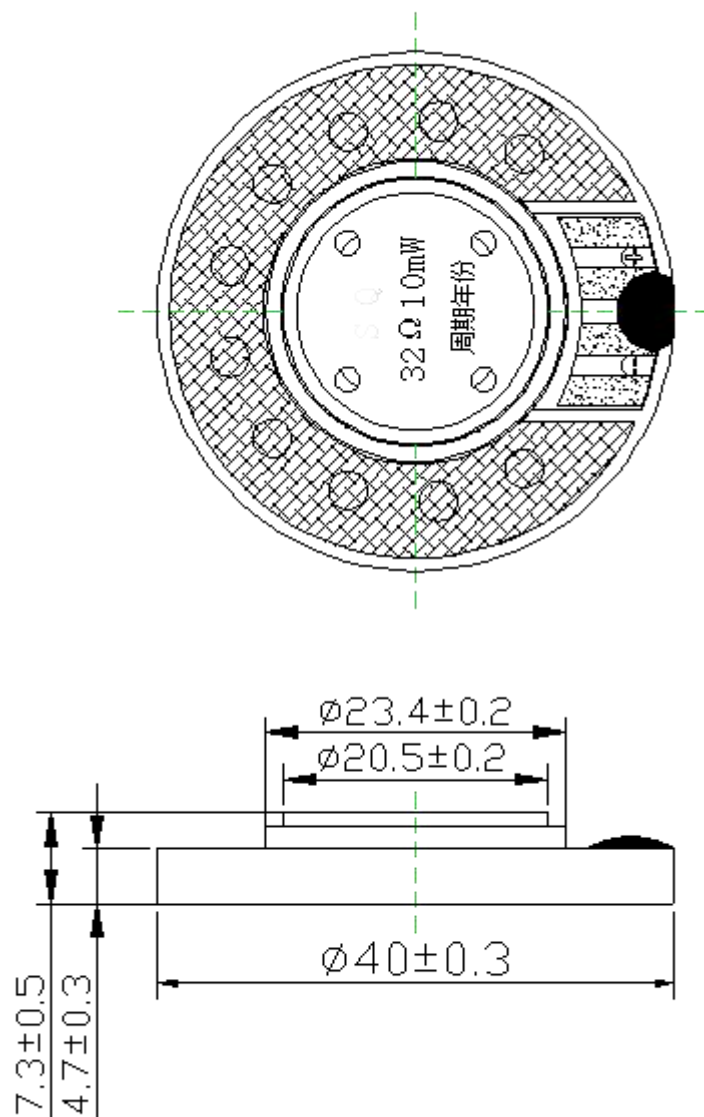
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J、APPEARANCE DRAWING 外观尺寸图



Unit: mm