

1. SCOPE 范畴

This specification applies Magnetic transducer SMT8503
此规格书适用于电磁式声响器 SMT8503

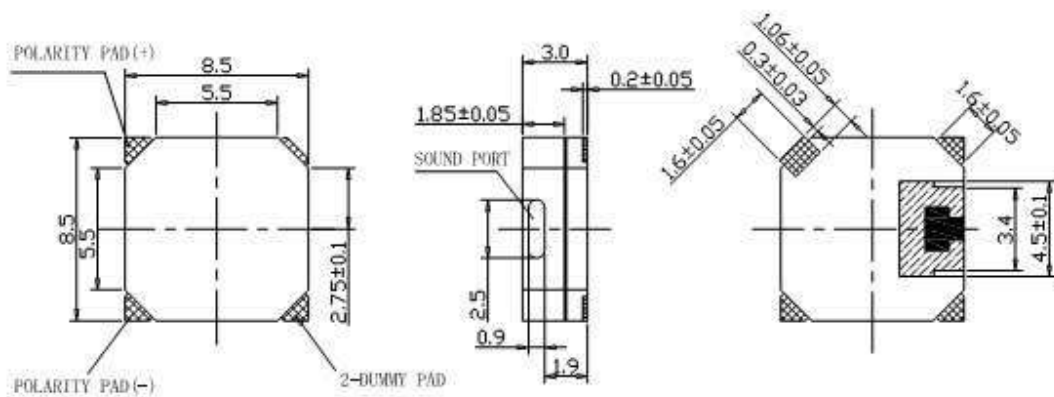
2. SPECIFICATOIN 规格

Test condition 测试条件 TEMP.=25℃温度=25℃

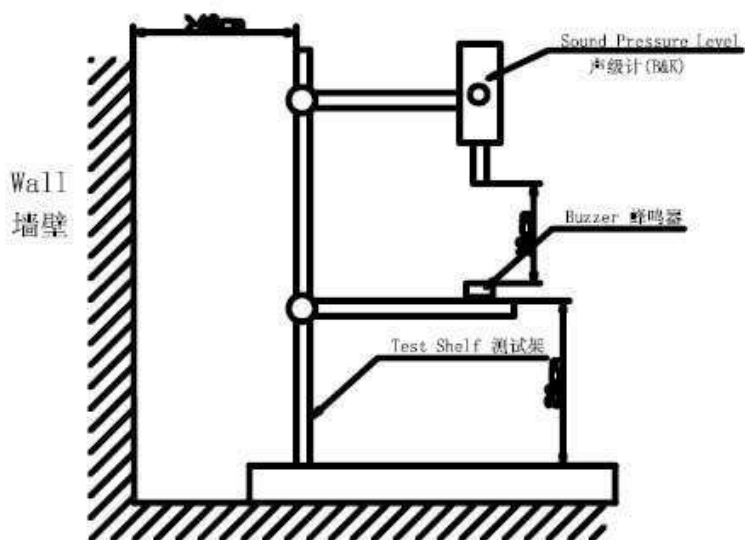
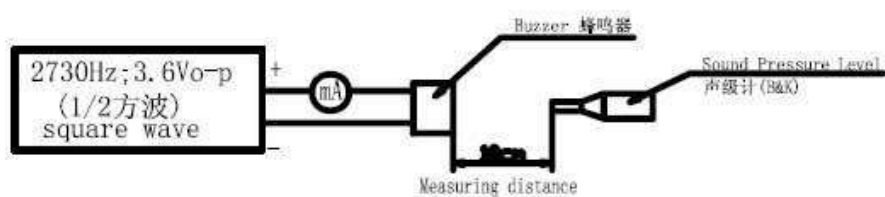
Item 项目	Unit单位	Specification 规格
Rated Voltage额定电压	Vo-p	3.6
Operating Voltage 工作电压	Vo-p	2.5~4.5
*Rated Current (MAX.) 额定最大电流	mA	90
*Sound Output at 10cm (Min.) 最小输出声压/10cm	dB	85 (typ88)
*Rated Frequency 额定频率	Hz	3000
Coil Resistance (直流电阻)	Ω	16±3
Lead Pin Material 连接插脚		SMD
Operating Temperature 工作温度	℃	-30~+80
Storage Temperature 贮存温度	℃	-40~+85
Housing Material 外壳材料		LCP
Weight 重量	g	0.6
*Value Applying at Rated Voltage. *额定电压测试.		

3. APPEARANCE DRAWING 外形尺寸图

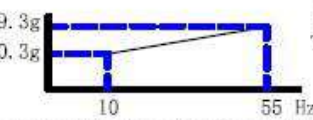
Unit:mm Tolerance:±0.2mm



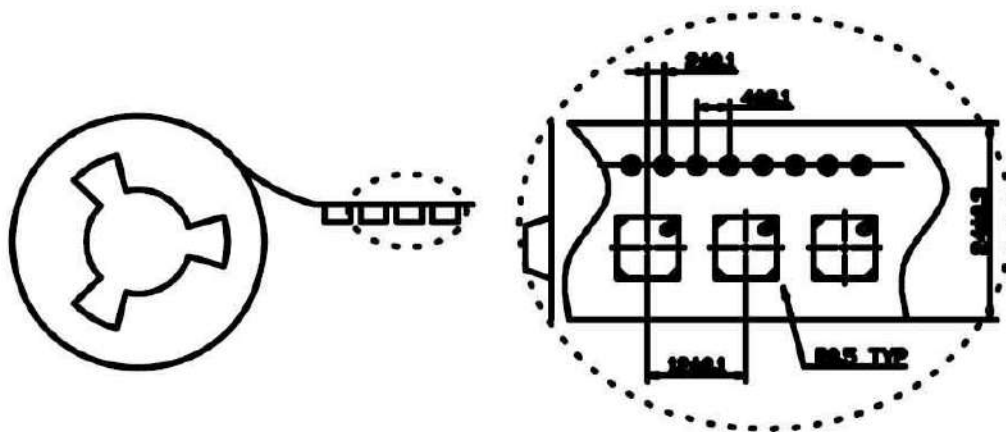
4. MEASURING MENTHOD 测试方法



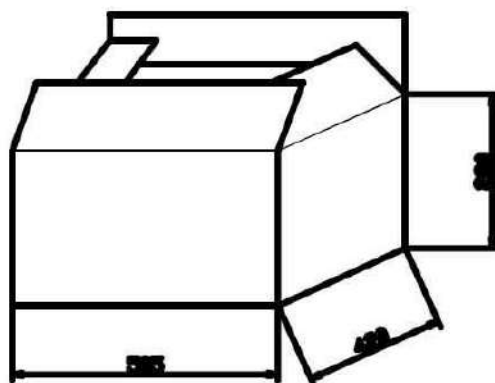
5. RELIABILITY TEST 可靠性测试

ITEM 项目	TEST CONDITION 测试条件	STANDARD标准	
Storage in high temp. 高温贮存	Storage in $+85\pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to the room temperature for 2 hours without applying power. 不加负载, 在 $+85\pm 2^{\circ}\text{C}$ 的测试箱中贮存240小时, 然后在室温下恢复2小时	After test: The value of frequency/current/SPL should be meet specifications 经过测试, 频率/电流/声压必须符合规格要求	
Storage in low temp. 低温贮存	Storage in $-40\pm 2^{\circ}\text{C}$ test box for 240hours, then expose to the room temperature for 2 hours without applying power. 不加负载, 在 $-40\pm 2^{\circ}\text{C}$ 的测试箱中贮存240小时, 然后在室温下恢复2小时		
Storage in humidity 恒定湿热	Storage in $+40\pm 2^{\circ}\text{C}$ 90-95%RH test box for 48 hours, then expose to the room temperature for 2 hours without applying power. 不加负载, 在 $+40\pm 2^{\circ}\text{C}$ 90-95%RH的测试箱中贮存48小时, 然后在室温下恢复2小时		
Temperature cycle test 温度循环试验	 <p>Make this test for 5 cycle without applying power, then expose to the room temperature for 2 hours 不加负载, 按5次循环测试, 然后在室温下恢复2小时</p>		
Vibration test 振动试验	 <p>Amplitude: 1.5mm Time: 1min/axis</p> <p>Make this test for the directions of X, Y, Z for 2 hours each (total 6 hours). 振动频率10-55Hz, 振幅1.5mm, 在X, Y, Z 3个方向各2小时</p>		
Drop test 跌落试验	Drop from the height of 100cm to the surface of 100mm thick woodenboard. three directions (X, Y, Z). 从100cm高跌至10mm厚的木板上, 在X, Y, Z 3个方向各1次		跌落前后允许 声压 $\pm 5\text{dB}$
Solderability test 可焊性试验	Soldering temp.: $235\pm 5^{\circ}\text{C}$. Heat applying time: $3\pm 0.5\text{sec}$. 焊接温度 $235\pm 5^{\circ}\text{C}$, 焊接时间 3 ± 0.5 秒.		90%min. lead terminals shall be wet with solder 浸入端子部分至少90%附着焊锡
Lead Pin Strength Pulling 插脚拉力强度	The force 10 seconds of 9.8N is applied to each lead pin in axial direction 在各插脚的轴向施加9.8N的力10秒		No damage and cutting off 插脚不受伤, 不脱落

6. PACKING 包装



1000PCS/CARRUER REEK; 每卷装1000只



10000PCS/CTN 每箱放10000只

