

承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project: MIC咪头4013 贴片蓝板 管芯电容

规格型号 Part No: MIC4013-BL

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	王宗华	
审核/Check	陈淼淼	
批准/Approved	张春华	

奔驰标电阻电容。

1 . SCOPE 适用范围

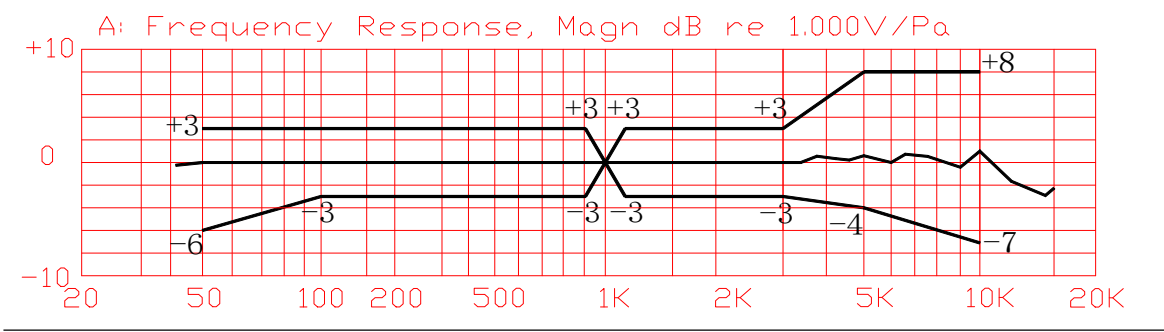
The specifications should be applied to electret condenser microphone of T401304-373S
此规格书适用于 T401304-373S 型驻极体电容传声器

2. ELECTRICAL CHARACTERISTICS电气特性

Temp. = 20 ± 2 ℃，Room Humidity 60±5%， Air pressure:86~106Kpa

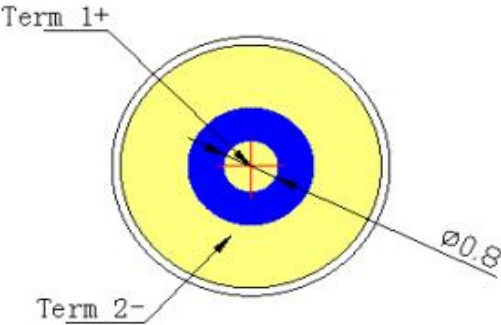
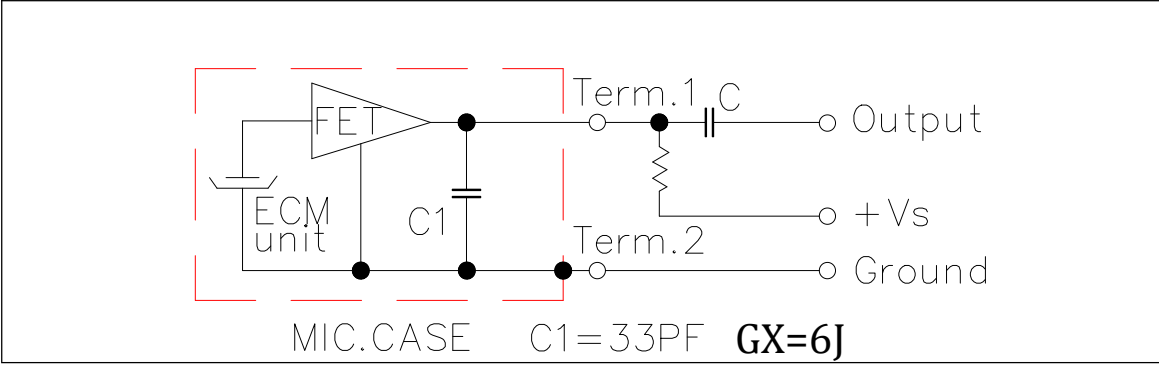
NO	Parameter	Symbol	Condition	Limits			Unit
				Min	Center	Max	
1	Directivity 指向性	0	Omni directional 全指向				
2	Sensitivity 灵敏度	S	f=1KHZ, S. P. L=1Pa (0dB=1V/Pa)	-39	-38	-37	dB
3	Output impedance 负载电阻	Zout	f=1KHZ			2. 2K	Ω
4	Current Consumption 耗电流	IDss	VCC=2. 0V , RL=2. 2K Ω			500	μ A
5	Operating Voltage 工作电压			1. 0		10	V
6	Standard Operating Voltage 标准工作电压				2. 0		V
7	Decreasing Voltage 减电压灵敏度	Δ S-VS	VS=2. 0Vto1. 5V			-3	dB
8	Signal to Noise Ratio 信噪比	S/N	f=1KHz, S. P. L=1Pa (A-Weighted curve)	58			dB
9	Max Input S. P. L 最大输入音压		THD<3% (f=1KHZ)			110	dB

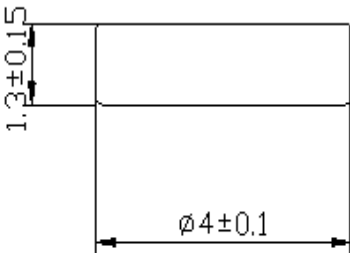
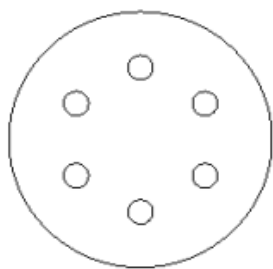
3. TYPICAL FREQUENCY RESPONSE CURVE 频率响应曲线



4. MEASUREMENT CIRCUIT测量线路

5. APPEARANCE & DIMENSION
外观尺寸图





6. RSLIABILITY TEST 性耐性试验

High Temperature Test 高温试验	After exposure at 80℃ for 96 hours, sensitivity to be within ±3dB from initial sensitivity. 在 80℃环境中 96 小时后，灵敏度应在初始灵敏度的±3db 范围内
Humidity Test 湿度试验	After exposure at 40℃ and 93% relative humidity for 96hours 在 40℃和 93%相对湿度下 96 小时后，灵敏度应在初始灵敏度的±3db 范围内
Low Temperature Test 低温试验	After exposure at - 25℃ for 96 hours, sensitivity to be within ±3dB from initial sensitivity. 在-25℃环境中 96 小时后，灵敏度应在初始灵敏度的±3db 范围内。
Drop Test 跌落试验	To be no interference in operation after dropped to concrete floor each one time froml meter height at three directions in state of standard packing. 每次跌落到混凝土地面后，无干扰操作。在标准包装状态下，三个方向的高度为 1 米。
Vibration Test 振动试验	To be no interference in operation after vibration. 10Hz to 55Hz for 1 minute full amplitudel.52mm, for 2 hours at three axes in state of Standard packing. 振动后运行无干扰。10Hz 至 55Hz，1 分钟全振幅 1. 52mm，在标准包装状态下在三个轴上放置 2 小时。

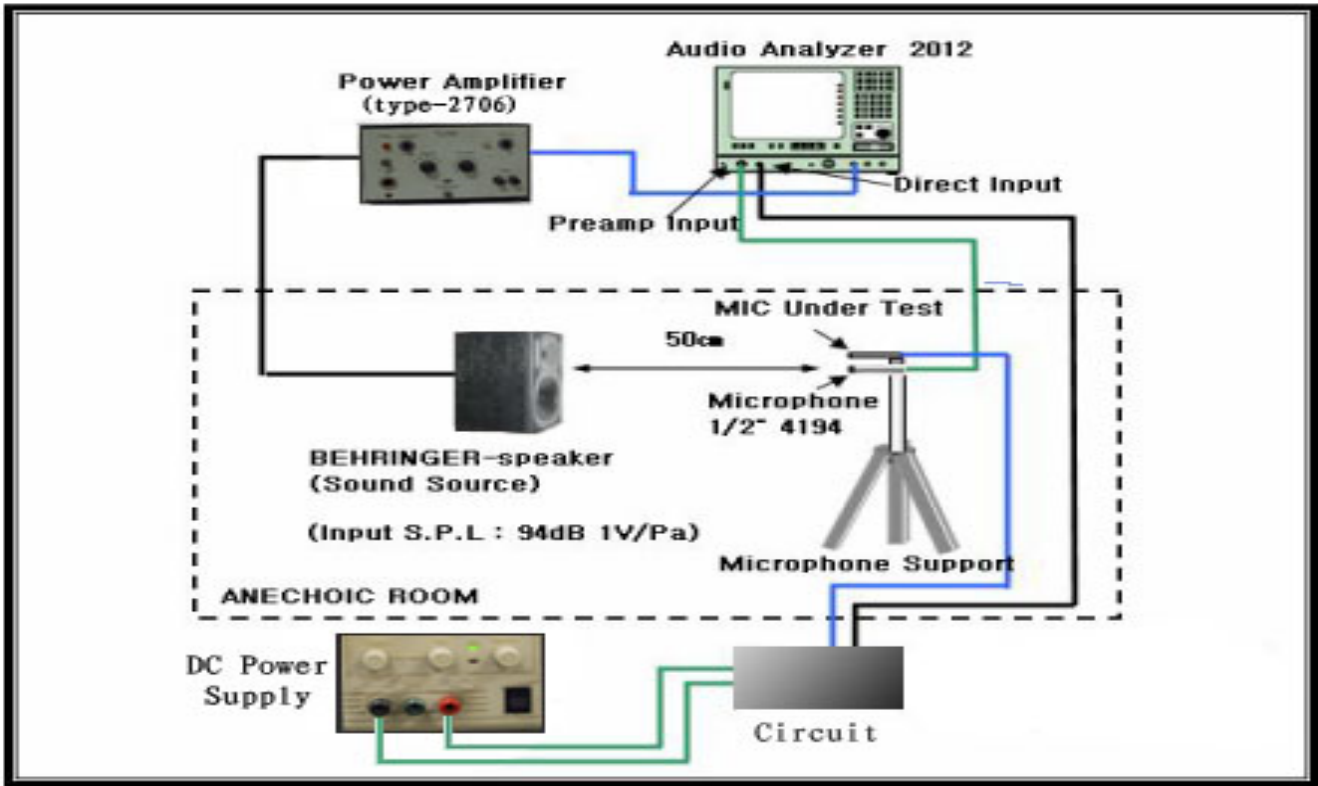
Temperature Cycle Test 温度循环试验	After exposure at - 25℃ for 30 minutes, at 20℃ for 10 minutes, at 70℃ for 30 minutes,at 20℃ for 10 minutes. 5 cycles, sensitivity to be within ±3dB from initial sensitivity. 在-25℃环境 30 分钟后, 在 20℃环境 10 分钟后, 在 70℃环境 30 分钟后, 在 20℃下保持 10 分钟。 5 个周期, 灵敏度在初始灵敏度的±3db 范围内。
Temperature Shock Test 温度冲击试验	Temperature change from - 25℃ to 70℃ for 30 minutes . (changing time : 20 sec.)After 5 cycles, sensitivity to be within ±3dB from initial sensitivity 温度从-25℃到 70℃变化 30 分钟。(改变时间: 20 秒) 5 个周期后, 灵敏度在初始灵敏度的±3db 范围内。

All tests should be done after 3 hours of conditioning at 20℃,R.H60%, while the sensitivityis to bewithin ±3dBfrom the initial sensitivity after the following experiments.) 在下列试验完成后, 在温度为20℃, 相对湿度为60%的条件下恢复3小时后进行测试, 灵敏度与初始灵敏度相差在±3dB 以内。

Storage Temperature 储存温度 -40℃ ~70℃ With0% ~ 90% R.H. humidity
Operating Temperature 操作温度 -20℃ ~60℃ With0% ~ 90% R.H. humidity

7. MEASUREMENT SYSTEM测量系统

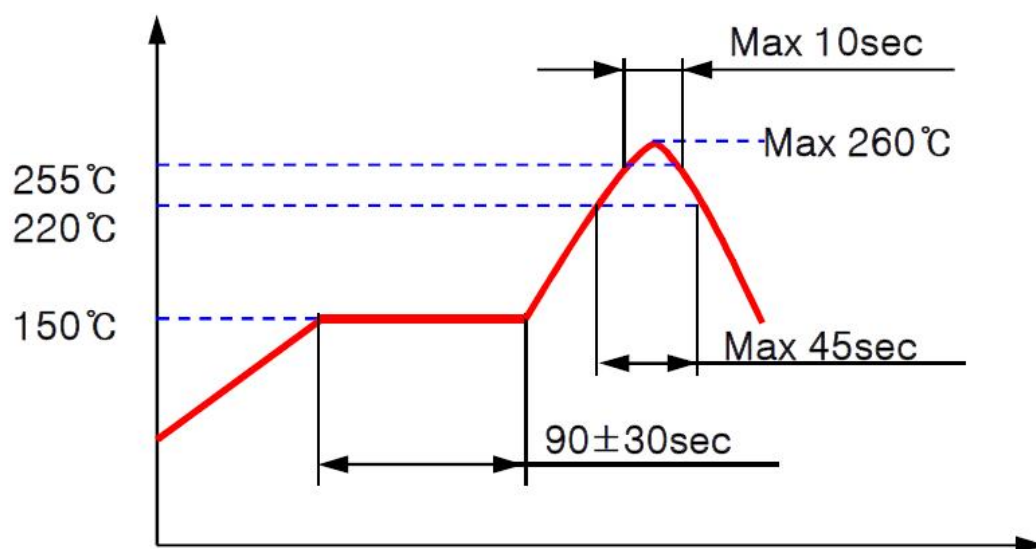
Far field measurement system



8.Soldering Condition焊接条件

Guaranteed Maximum Reflow Condition 极限回流条件

Ambient temperature



NOTE : After the first reflow, the second reflow is tested on keeping MIC the usual temperature. 第一次回流焊后, 待产品温度恢复常温再进行第二次回流焊.

9.Package 包装

