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SPECIFICATION

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1.	适用范围	本规格书适用于驻极体电容式麦克风							
	Scope	This specification applies electret condenser microphone							
2.	型号	OF-97671L54 (EM-4F)							
	Model No.								
3.	试验条件								
	Test Condition								
	3-1标准试验条件 温度 / Temperature : 5~35℃								
	Standard		相对湿度/Re	相对湿度/Rel. Humidity : 45~85%(RH)					
	Test Cond	ition	气压 / Pr						
	3-2判定试验条	件	温度 / Te	emperature : 20	±2℃				
	Judgment			el. Humidity : 60					
	Test Condi			•	~106KPa				
1	规格		1/ / 11		100111 4				
4.	对价 Specifications								
	4-1 尺寸		A071	0.2 \ (.7 \ 0.0	2 (II)				
	Dimension	n	$\mid \Psi 9.7 \pm 0$	$\Phi 9.7 \pm 0.2 \times 6.7 \pm 0.2$ (H)mm					
			F '1 F1	4 4					
	4-2 Electre	et	Foil Electret						
	4-3 指向性		Omni-directional						
	Directivity	V							
	4-4 灵敏度		-54±3dB						
	Sensitivit	V	$(0dB=1V/\mu bar, 1KHz)$						
				T In it					
	4-5 尺寸图 4	Appeara			Unit:	mm			
			6.7						
			↑	Term.1 Output					
			Term: Toucput						
			Φ9.7						
			- 						
			<u> </u>		Term.2 (Ground			
					161111.2	Ji Oul lu			
Dr	awing by	Chec	eked by	Approved by	y Da	te			
田英梅 张			学贤	王子猛	2005-0	08-16			
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4-6 负载阻抗		2.2K	Ω							
Operating Impe	2.21									
4-7 基准电压		3.0V								
Standard Power	Supply									
4-8 操作电压		D.C 1~1	0V							
Operating Vol	ltage	(Sensitive Compare)	•			: Wit	hin −3	dB at	1.0V	
4-9 频响特性		20-16								
Frequency	Į	20 10	,000	112						
4-10 消耗电流		Max.	0.5r	n A						
Current Consun	nption	IVIUM.	0.51	117 1						
4-11 信噪比	•	More	thar	54	дR					
S/N Ratio		101010	unan	1 0 1	uD					
4-12 最大输入	声压	110dB SPL								
Max input sound	Max input sound level				TIOGE SI E					
4-13 周波数特	性 Ty	pical Frequency Response Curve								
			全向	句性						
Relative Response(dB)										
9+10										
o esp										
2 -10 2 -10 2 -10 3 -10 -10 -10 -10 -10 -10 -10 -10 -10 -10										
elati										
-30	50	100 200		00	1000	3000	F000	10000	20000	
20	30	100 200 500 1000 2000 5000 10000 20000 Frequency (Hz)								
4-14 回路图	Test (Circuit		- q	-	<u> </u>				
	1050	on care								
	FET imp						_			
	ECM unit			Term.1 C Output RL						
								out		
				Term.2 +Vs						
	eld case					5. 50				
Drawing by	Che	cked by	Į .	Ap	prove	d by		Date		
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5.	信赖性试验 Reliability Test							
	经过以下所有试验在20℃的条件下放置3小时后,麦克风的灵敏度与试							与试
	验前比较变化在±3Db 以内。							
	After any following tests, the sensitivity of the microphone to be within $\pm 3Db$ of							
	initial sensitivity after 3hours of conditioning at 20°C.							
	5-1 振动试验							
	Vibration	n	振幅 / Amplitude : 1.52mm					
					hange of Frequency: 1 octave/min			
		3方向,各2小时/2 hours in each of 3 axes						
	5-2 高温试验		. 70°C	C	70 1			
	Dry Heat	-	+/0 C	ior	72 hours			
	5-3 低温试验	<u>\</u>						
	Dry Cold		- 20℃	for	72 hours			
	5-4 高温高湿试验 90%~95%RH,+40℃ for 240 hours							
	Damp Ho		20°℃	<u> </u>	05°C ←→ 70	°C4	2 0°C	
	5-5 温度循环 Temperatur	$-20^{\circ} \text{C} \longrightarrow 25^{\circ} \text{C} \longrightarrow 70^{\circ} \text{C} \longrightarrow -20^{\circ} \text{C}$ $(2h) (1h) (2h) (1h) (2h) (2h) \times 10 \text{ cycles}$						
	Temperatur 5-6 跌落试	Height: 1m						
	7,17,1			顺序: 三个面各跌5次				
Packing drop test			Procedure: 5 times from each of 3 axises					
5 AV NI					o tillies mon	i cacii o	1 3 axises	
6.	6-1 动作温度范围		-40°C~75°C					
	Operation Tem		100 750					
	6-2 保存温度范围			-40°C~75°C				
	Storage Temperature							
7.	焊接条件							
	Soldering Condition 7-1 焊接使用13W~20W的电烙铁。							
	The soldering copper of a small type of 13W~20W shall be applied.							
Drawing by Check			ted by		Approved	by	Date	
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7. 焊接条件

Soldering Condition

7-2 电烙铁表面温度低于320℃。

The temperature of the working surface of the soldering copper shall be below 320°C

7-3 焊接时把麦克风嵌入散热能力强的金属块内。

ECM shall be soldered fixed on the metal block (heat sink) which has the higher radiation effects said heat sink shall contact with of ECM.

7-4 焊接时间控制在1~2秒内。

The soldering time for each terminal shall be 1~2 sec.

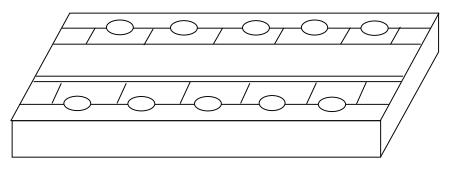
7-5 焊接后不能出现针孔。

The pinhole after soldering shall be avoided.

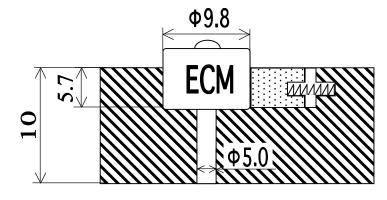
7-6 静电容易破坏麦克风必须采取措施避免(电烙铁接地,戴静电环等。)

ECM may easily destroyed by the static electricity and the countermeasure for eliminating the static electricity (the ground for soldering copper, for worktable and for human body) shall be executed.

7-7 放热板形状 Shape of heat sink



7-8 固定部孔形状 Shape of hole at fixed part



Drawing by	Checked by	Approved by	Date
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