

ROHS

SPECIFICATION OF PRODUCT

産 品 承 認 書

P M B P/N: PMB3729H11-B383

PMB

상표등록 <제40-0729433호>

피엠비일렉텍

PMB ELECTECH

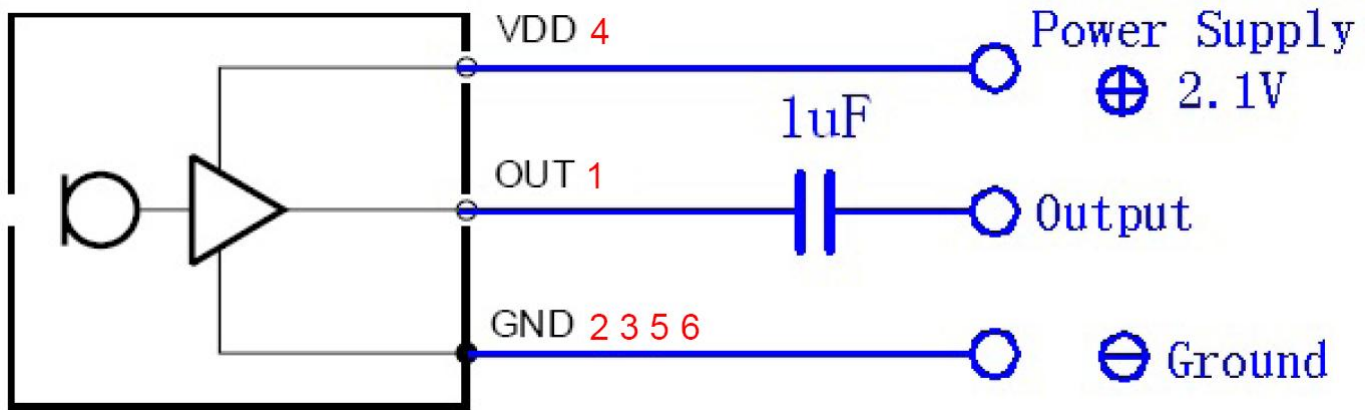
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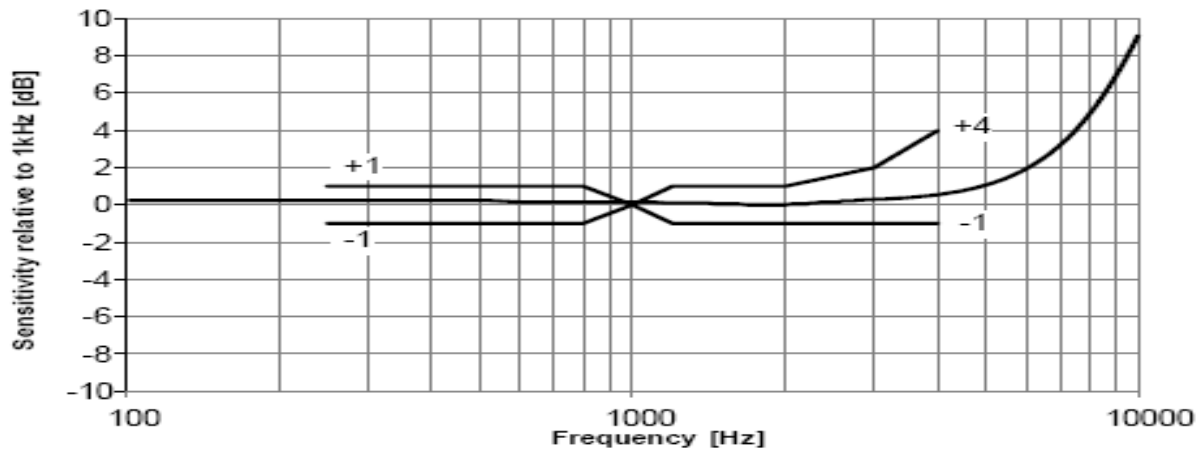
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1. 产品型号 Model NO.			PMB3729H11-B383					
2. 电性能 Electrical Characteristics								
典型测试条件 typical test conditions:								
温度 Temperature :23±2℃ 电压 Voltage : 1.8V 相对湿度 Rel.Humidity : 60%~70%								
序号 NO.	参数 Parameter	符号 Symbol	条件 Condition	范围 Limits			单位 Unit	
				最小值 Min.	标准值 standard	最大值 Max.		
1	尺寸 Dimension			3.76×2.95×1.1 (H)			mm	
2	指向性 Directivity			全指向 Omni directional				
3	测试基准 test condition			1.8V				
4	灵敏度 Sensitivity	S1kHz	1kHz, 94dB SPL	-41	-38	-35	dB	
5	操作电压 Operating Voltage	VDD		1.5		3.6	V	
6	输出阻抗 Output Impedance	ZOUT	1kHz			200	Ω	
7	消耗电流 Current Consumption	Icc			145	190	uA	
8	声学超载点 Acoustic Overload Point	AOP	10% THD, 1kHz, S=Typ, VDD=3.6V, Rloda>2 k Ω	115			Db SPL	
9	信噪比 Signal to Noise Ratio	SNR	94dB SPL, 1 kHz A-weighted		63		dB (A)	
10	总谐波失真 Total Harmonic Distortion	THD	94dB SPL, 1kHz, S=Typ, VDD=3.6V, Rloda>2 k Ω			1	%	
11	直流输出电压 DC Output		VDD=1.5V		0.84		V	
12	环保法规 Environmental Regulations		RoHS					
1) 100% tested.								
2) Maximum specifications are measured at maximum VDD. Typical specifications are measured at VDD = 1.8V.								

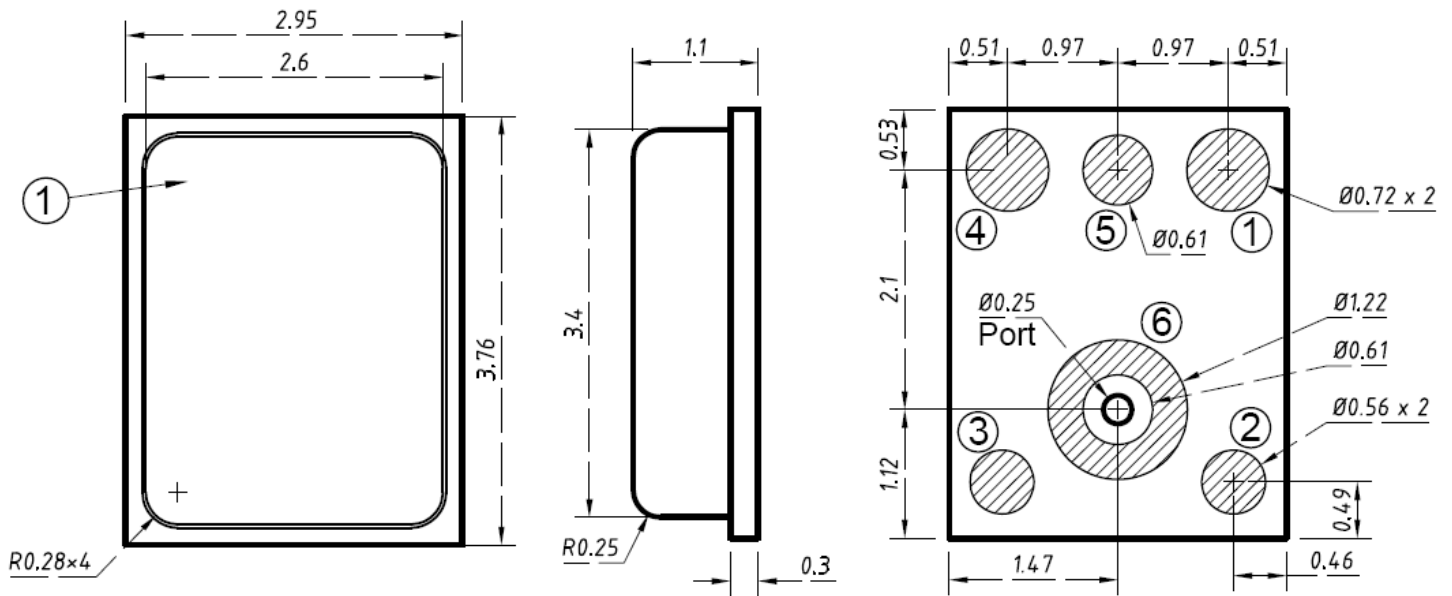
3. 测试电路图 Circuit Diagram



4. 典型频率响应曲线 Typical Frequency Response Curve (far field)



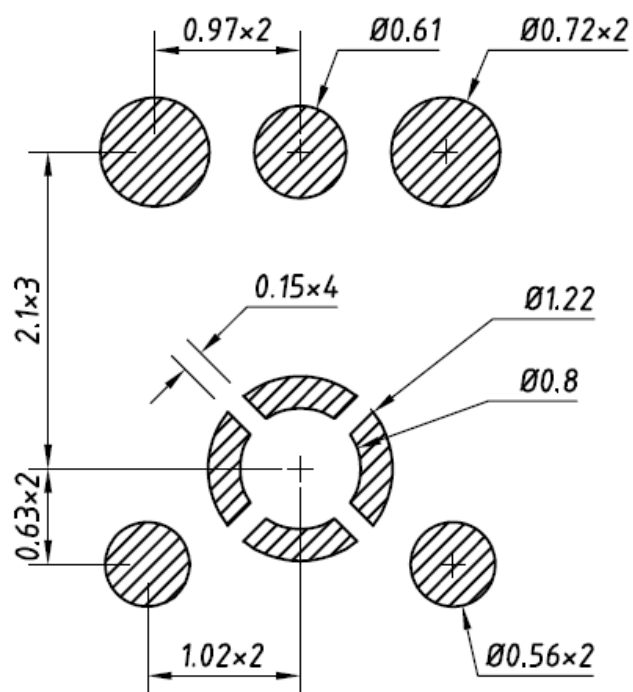
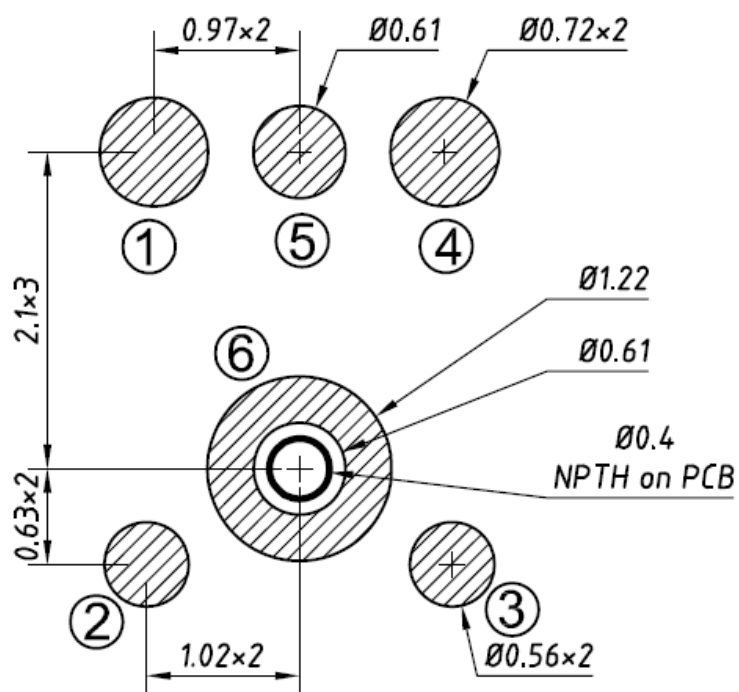
5. 外形图 Outside Drawing

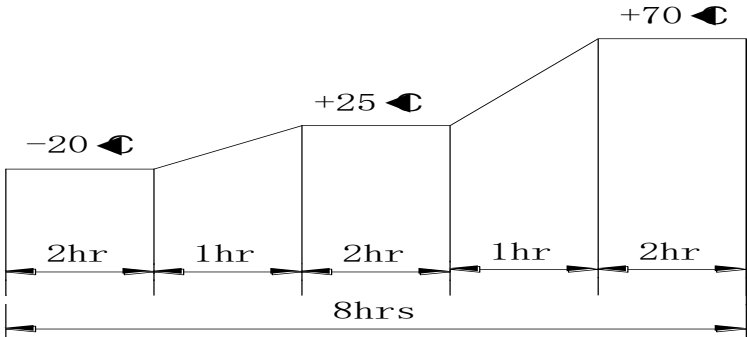


Pin Definition and Function

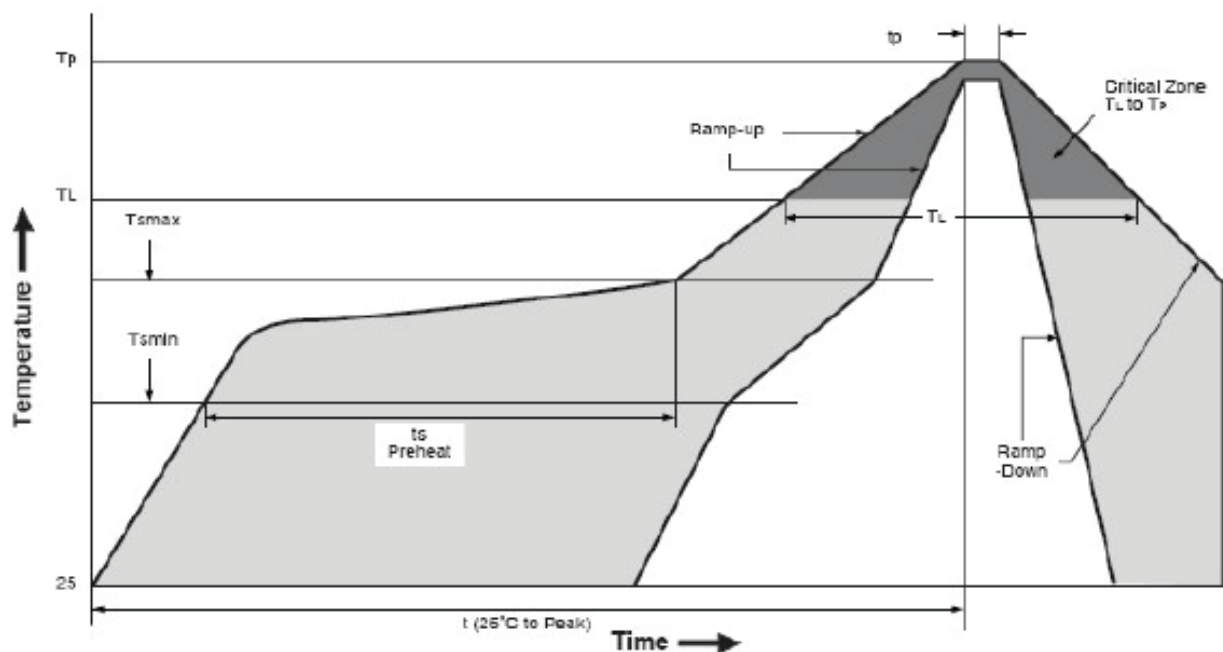
Pin No.	Symbol
1	OUT
2	GND
3	GND
4	VDD
5	GND
6	GND

6. 建议客户用地格局 Recommended Customer Land Pattern



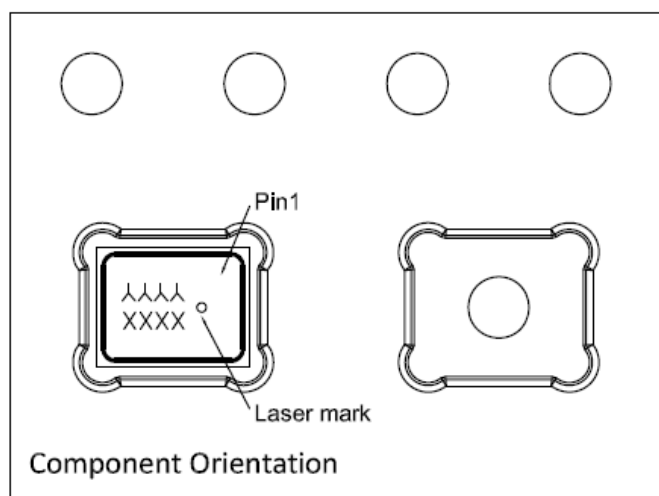
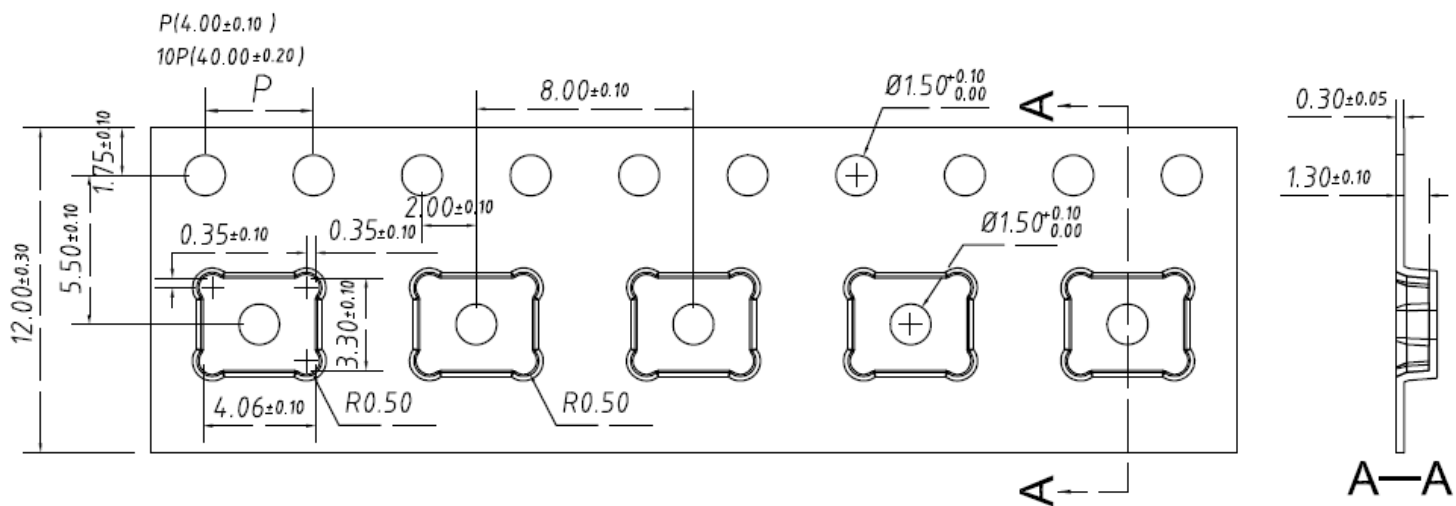
7. 可靠性试验 Reliability Test	
经过以下所有试验在温度 15℃~35℃和湿度 45%~75% 的条件下放置 3 小时后, 要求麦克风的灵敏度试验前后变化在 3dB 以内 After any following tests, the sensitivity of the microphone to be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 15℃~35℃ and 45%~75% RH	
7.1 振动试验 Vibration Test	1 分钟频率变化从 10Hz 到 55Hz, 振幅 1.52mm, 在三个方向各振动 2 小时 1 minute frequency from 10Hz to 55Hz, amplitude 1.52mm, the vibration in three directions 2 hours
7.2 跌落试验 Drop Test	分别把包装的三个面从 1 米高处自由落到地面上, 各 10 次 Three faces of package from 1 meters high free fall to the ground, each 10 times
7.3 高温试验 Dry Heat Test	在 80℃$\pm$3℃环境中维持 96 小时 80℃$\pm$3℃ for 96 hours
7.4 低温试验 Dry Cold	在-40℃$\pm$3℃环境中维持 96 小时 -40℃$\pm$3℃ for 96 hours
7.5 高温高湿试验 Damp Heat Test	在温度 45℃$\pm$3℃和相对湿度 90%~95%的环境下维持 96 小时 45℃$\pm$3℃ and 90%~95% RH for 96 hours
7.6 温度循环试验 Temperature Cycles Test	按如图温度和时间循环 10 次 According to the figure of temperature and time cycle, each 10 times 
7.7 温度冲击试验 Temperature Impact Test	在-40℃$\pm$3℃环境中放置 30 分钟, 然后在 125℃$\pm$3℃环境中放置 30 分钟, 这样循环 100 次。 -40℃$\pm$3℃ for 30 minutes, and then 125℃$\pm$3℃ for 30 minutes, each 100 times
8 储存环境 Storage environment	
8.1 贮存温度/湿度 Storage Temperature/ Humidity :	-40℃ ~ +100℃ / 35%~85% RH
8.2 工作温度/湿度 Operating Temperature/ Humidity :	-40℃ ~ +100℃ / 35%~85% RH

9. 回流曲线 Recommend reflow profile:



Description	Parameter	Pb-free
Average ramp-up rate	T_{smax} to T_P	3°C/sec max
Preheat		
Minimum temperature	T_{smin}	150 °C
Maximum temperature	T_{smax}	200 °C
Time(T_{smin} to T_{smax})	t_s	60 sec to 180 sec
Ramp-up rate	T_{smax} to T_L	1.25 °C/sec
Time maintained above liquidous temperature	t_L	60 sec to 150 sec
Liquidous temperature	T_L	217 °C
Peak temperature	T_P	260 °C
Time within 5°C of actual peak temperature	t_P	20 sec to 40 sec
Ramp-down rate	T_P to T_{smax}	6 °C/sec max
Time 25 °C ($t_{25 °C}$) to peak temperature	t	8 minutes max

10. 包装 PACKAGING



Reel Diameter	Quantity Per Reel
13 inch	5000