



Specification For Approval

承認書

客 戶 (Customer)			
品 名 (Product Name)	ECM		
機 種 (Model No.)			
客戶料號 (Customer Parts No.)			
供應商料號 (Supplier Model No.)	PVM-4015B-2C423GT		
客戶承認簽章 Customer Approval Signature	In Charge	Checked	Approval

Revision History

Version	Date	Description	Author
V 001	2011.02.24	Creation	LJM
V 002	2012.05.23	MODIFY Appearance	LJM

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Approval : VIVIAN

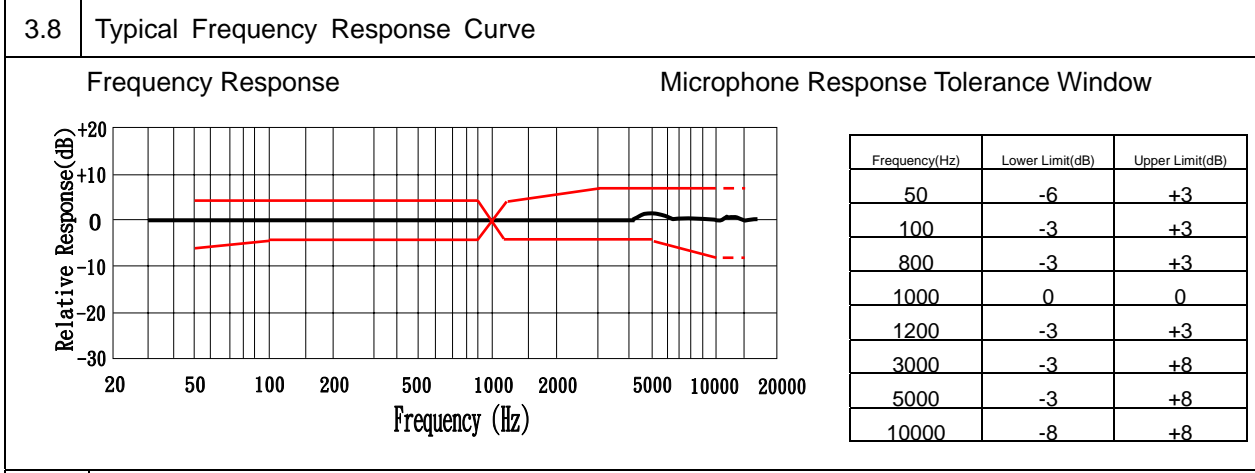
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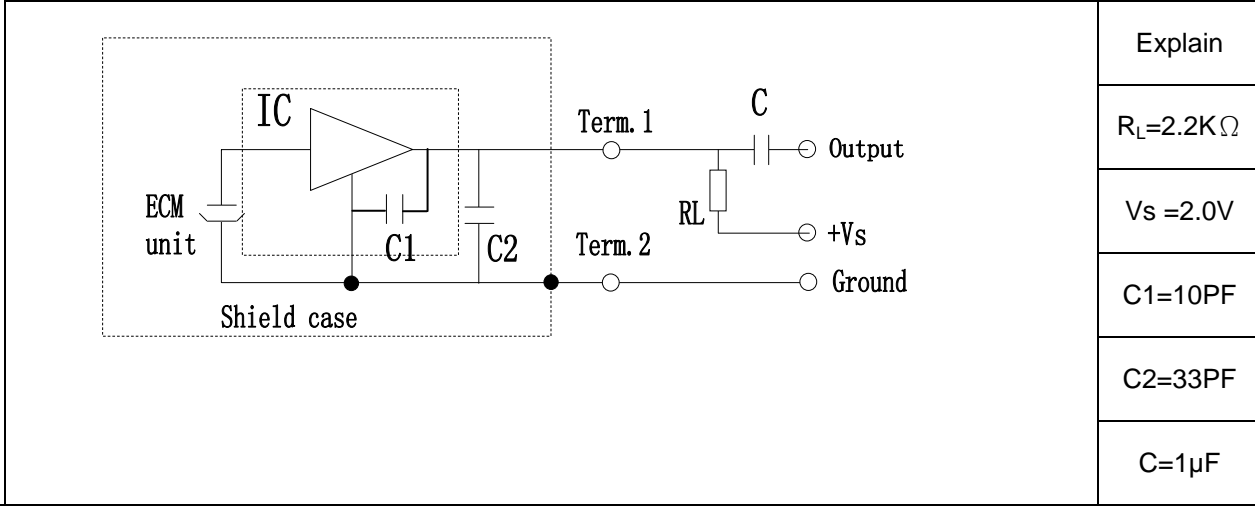
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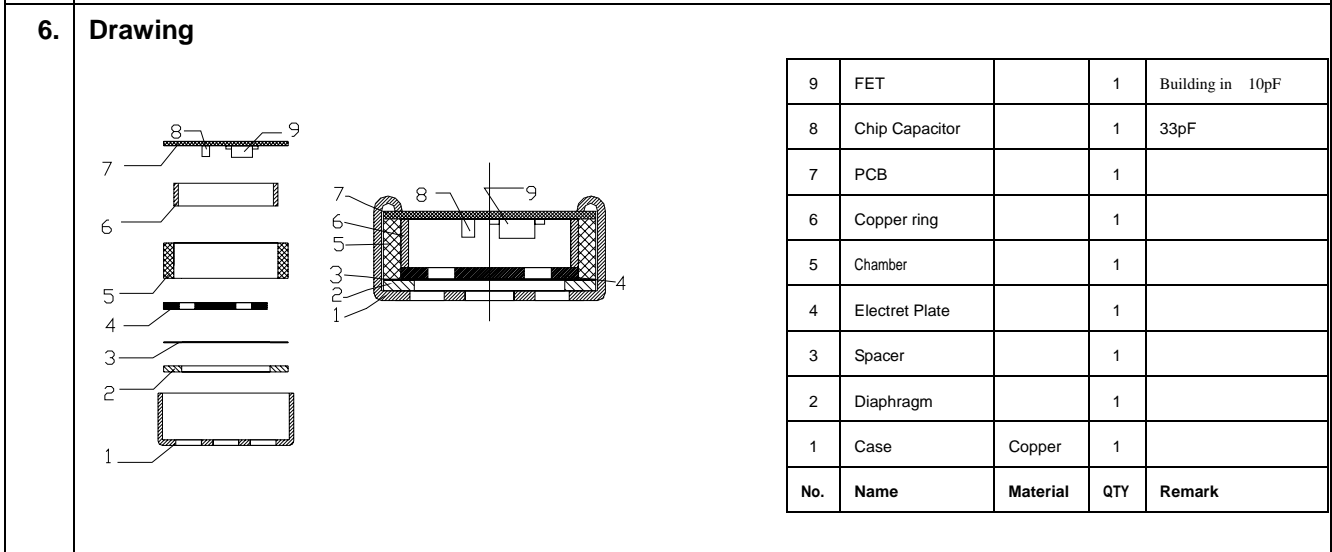
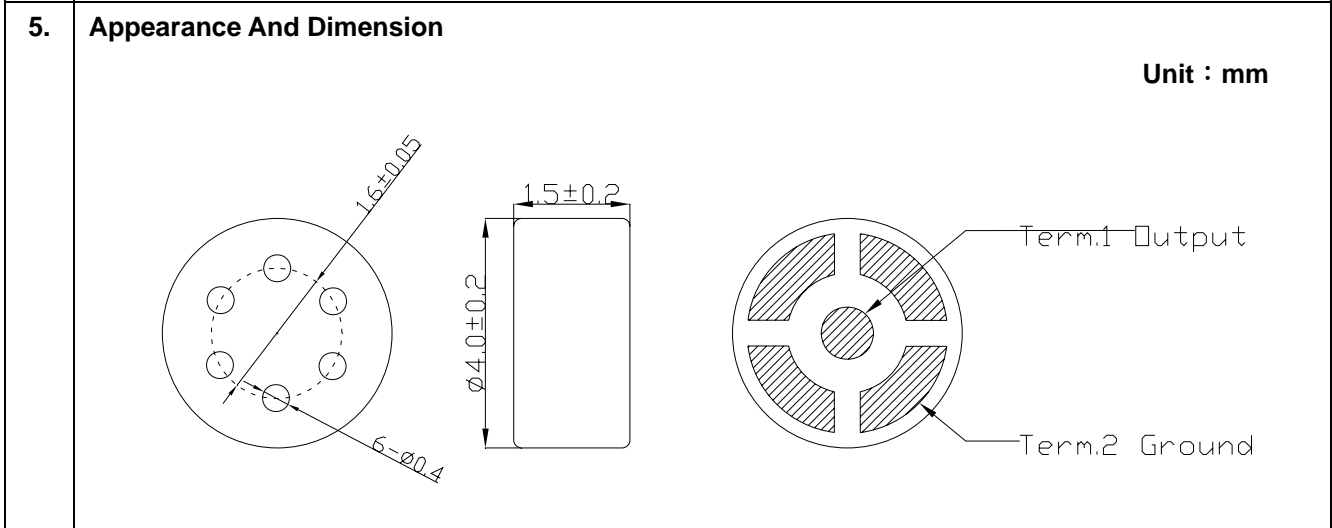
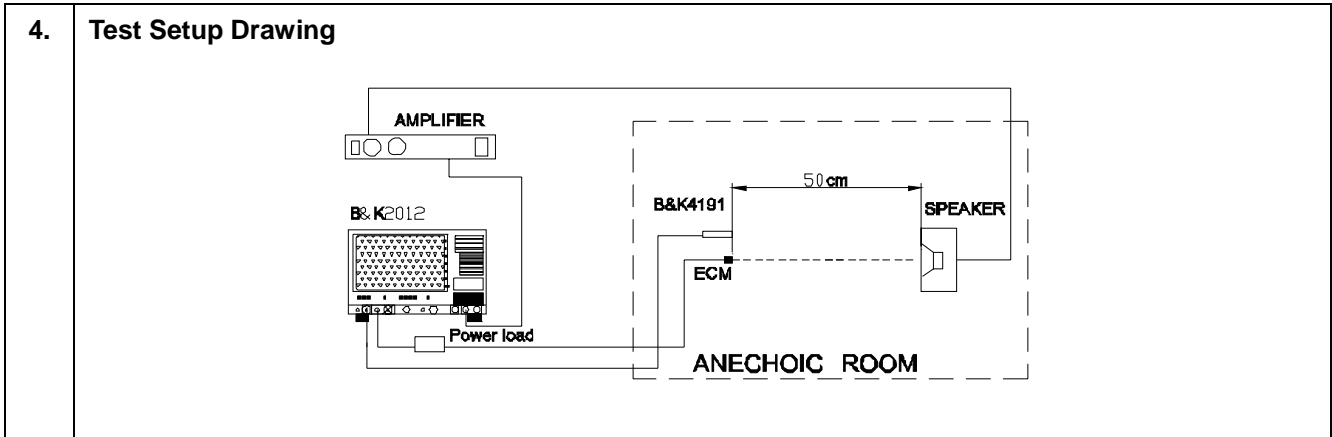
1.	Name :	Omnidirectional SMD Electret Condenser Microphone
2.	Model No.	PVM-4015B-2C423GT C1=10PF C2=33PF
3.	Scope :	This specification applies SMD electret condenser microphone (Temp=20±2°C Room Humidity=65±5%)

No	Parameter	Symbol	Condition	Limits			Unit
				Min.	Center	Max.	
3.1	Sensitivity	S	0dB=1V/Pa , at 1kHz	-45	-42	-39	dB
3.2	Output impedance	Z out	f=1kHz			2.2	KΩ
3.3	Current Consumption	I _{DSS}	V _{CC} =2.0V,R _L =2.2KΩ			500	μA
3.4	Signal to Noise Ratio	S/N	at 1kHz S.P.L=1Pa (A-Weighted Curve)	58			dB
3.5	Decreasing Voltage	ΔS	V _{CC} =3.0V to2.0V			-3	dB
3.6	Operating Voltage			1.4		5	V
3.7	Maximum input S.P.L					110	dB



3.9 Measurement Circuit



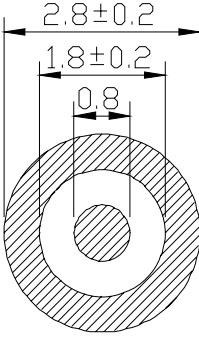


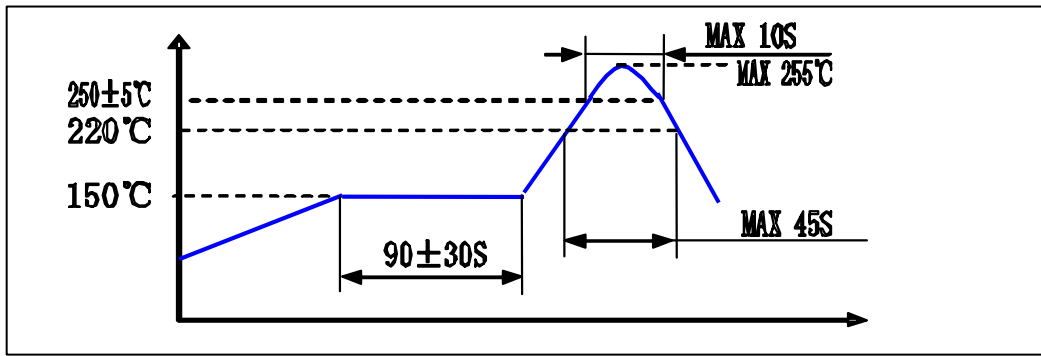
7. Temperature Conditions

Storage Temperature Range	Operation Temperature Range
-40°C ~ +85°C	-40°C ~ +85°C

8. Terminal Mechanical Strength

Terminal should be no interference in operation after pulled the terminal with 1kg for 1 minute.

<p>9.</p>	<p>Reliability Test</p> <p>After each of following test, the sensitivity of the microphone should be within $\pm 3\text{dB}$ of initial sensitivity after 3 hours of conditioning at 20°C.</p> <ol style="list-style-type: none"> 1. Vibration Test Frequency : 10Hz~55Hz Amplitude : 1.52mm Change of Frequency : 1 octave/min 2 hours in each of axes 2. High Temperature Test $+70^\circ\text{C}$ for 72 hours. 3. Low Temperature Test -30°C for 72 hours. 4. Humidity Test 90%~95%RH, $+40^\circ\text{C}$ for 240 hours. 5. Temperature Cycles -40°C \longleftrightarrow 25°C \longleftrightarrow 85°C \longleftrightarrow -40°C (2h) (1h) (2h) (1h) (2h) (2h) for 10 cycles. 6 Packing Drop Test Height : 1m Procedure: 5 times from each of axes
<p>10.</p>	<p>Recommend assembly weld plate</p>  <p>The drawing shows a circular component with three concentric circles. The outermost circle has a diameter of 2.8 ± 0.2. The middle circle has a diameter of 1.8 ± 0.2. The innermost circle has a diameter of 0.8. The area between the middle and outer circles is shaded with diagonal lines, representing the weld plate.</p>
<p>11.</p>	<p>Reflow Process Condition</p> <p>The soldering profile depends on various parameters necessitating a set up for each application. The data here is given only for guidance on solder re-flow. There are four zones:</p> <ol style="list-style-type: none"> 1. Preheat Zone: This zone brings the temperature at a controlled rate, typically $1\sim 2.5^\circ\text{C}/\text{s}$. 2. Equilibrium Zone: This zone brings the board to be a uniform temperature and also activates the flux. The duration in this zone (typically 2~3 minutes) will need to be adjusted to optimize the out gassing of the flux. 3. Re-flow Zone: The peak temperature should be high enough to achieve good wetting but not so high as to cause component discoloration or damage (255°C for maximum 10 seconds). Excessive soldering time can lead to inter-metallic growth which can result in a brittle joint. 4. Cooling Zone: The cooling rate should be fast, to keep the solder grains small which will give a longer lasting joint. Typically will be $2\sim 5^\circ\text{C}/\text{s}$. 5. Sensitivity change should within $\pm 3\text{dB}$ after re-flow process and at room temperature for 30 minutes at least.



14.	<p align="center">Packing Introduction</p>	<p align="center">Packing chart</p>
	<p>EQUIPMENT</p> <p>ADHENSIVE TAPE MACHINE AUTO PACKER</p> <p>PACKING INTRODUCTION</p> <p>1000PCS/ DELIVERY PLATE 3000PCS/ MID PACKET 24000PCS/ PAPER CASE</p> <p>QUANTITY INTRODUCTION</p> <p>1PC=0.07 g NET WEIGHT : 1.7kg GROSS WEIGHT : 4.7kg</p> <p>LABEL STIPULATION</p> <p>LABELEDEVERY BOXES (SEE THE CHART) DIMENSIONS SHOULD BE SEEN EASILY.</p>	<p align="center">View A</p> <p>1000PCS</p> <p>3000PCS</p> <p>24000PC</p> <p align="center">ELECTRET CONDENSER MICROPHONE</p>