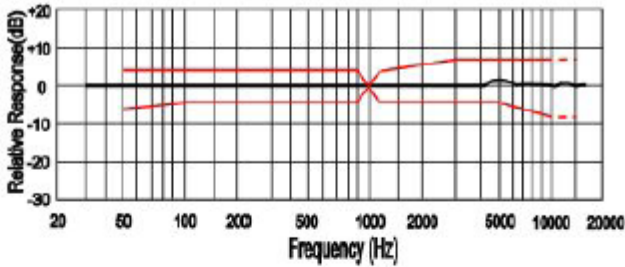


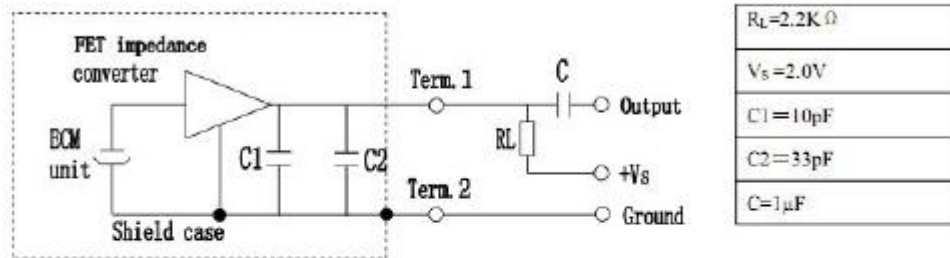
**Mikrofon EMY-6018R/BC-SMD** Art.-Nr.: 200520

**Specification :**

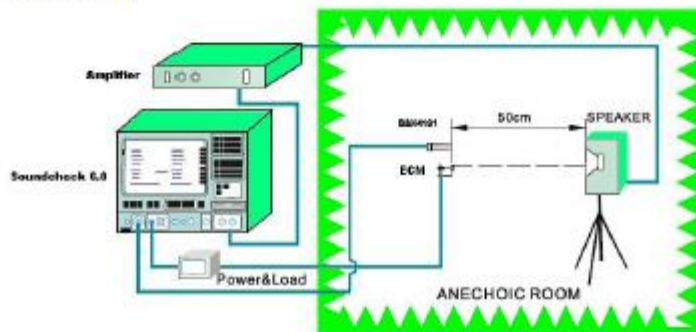
1	Name: Omnidirectional Electret Condenser Microphone																												
2	TYPE: <u>OB6018-C1033-G444-SMD</u>																												
3	Electrical Specifications:																												
3.1	Sensitivity Range	-44±4dB RL=2.2KΩ Vs=2.0V( 1KHz 0dB=1V/Par)																											
3.2	Impedance	Max. 2.2KΩ 1KHz (RL=2.2KΩ)																											
3.3	Frequency	20-16000 Hz																											
3.4	Current Consumption	Max.0.5mA																											
3.5	Operation Voltage Range	1.0V-10V																											
3.6	Max. Sound Pressure Level	110dB S.P.L																											
3.7	S/N Ratio	More than 58dB																											
3.8	Sensitivity Reduction	3V-2V Sensitivity Variation less than 3dB																											
3.9	Environmental Protection Regulation	ROHS																											
3.10 Typical Frequency Response Curve																													
<p style="text-align: center;">Frequency Response</p>  <p style="text-align: center;">Microphone Response Tolerance Window</p> <table border="1"> <thead> <tr> <th>Frequency(Hz)</th> <th>Lower Limit(dB)</th> <th>Upper Limit(dB)</th> </tr> </thead> <tbody> <tr> <td>50</td> <td>-6</td> <td>+3</td> </tr> <tr> <td>100</td> <td>-3</td> <td>+3</td> </tr> <tr> <td>800</td> <td>-3</td> <td>+3</td> </tr> <tr> <td>1000</td> <td>0</td> <td>0</td> </tr> <tr> <td>1200</td> <td>-3</td> <td>+3</td> </tr> <tr> <td>3000</td> <td>-3</td> <td>+8</td> </tr> <tr> <td>5000</td> <td>-3</td> <td>+8</td> </tr> <tr> <td>10000</td> <td>-8</td> <td>+8</td> </tr> </tbody> </table>			Frequency(Hz)	Lower Limit(dB)	Upper Limit(dB)	50	-6	+3	100	-3	+3	800	-3	+3	1000	0	0	1200	-3	+3	3000	-3	+8	5000	-3	+8	10000	-8	+8
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10000	-8	+8																											

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3.11 Schematic Diagram:

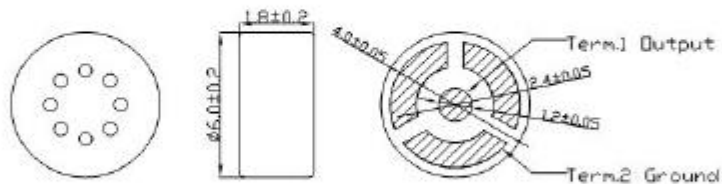


3.12 Test Setup Drawing:




4 Mechanical Specifications:

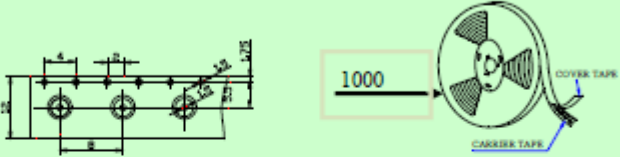
4.1 Appearance Drawing (mm)



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	4.2	Recommend assembly weld plate	
5	Reliability Tests: After any following tests, the sensitivity of the microphone unit shall not change more than $\pm 3\text{dB}$ from initial value, and shall keep their initial operation and appearance.		
	5.1	Hi-Temp. Test	The microphone unit must be subjected to $+85^{\circ}\text{C}$ for 240 Hours, and expose to room temperature for 3 Hours.
	5.2	Low-Temp. Test	The microphone unit must be subjected to $-40^{\circ}\text{C}$ for 240Hours, and expose to room temperature for 3 Hours.
	5.3	Humidity .&Heat Test	The microphone unit must be subjected to $+60^{\circ}\text{C}$ , 90% -95%RH-for 240 Hours, and expose to room temp for 3 Hours .
	5.4	Thermal Shocking Test	The microphone unit must be subjected to a environment from $-40^{\circ}\text{C}$ for30 minutes to the end of $+80^{\circ}\text{C}$ for 30 minutes, which shall be repeated 32 cycles and exposed to room temperature for 3 hours .
	5.5	Vibration Test	The microphone unit must be subjected to a procedure that after vibrating for two hours from each of the two directions with a frequency of 10-55Hz and a 1.52mm-high amplitude.
	5.6	Dropping Test	The microphone unit must be subjected to a procedure that after dropping to a slippery marble floor for 5 times from a 1-meter-high without package.
6	Environmental Condition:		
	6.1	Storage condition	$-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$ R.H. less than 90%
	6.2	Operation condition	$-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$ R.H. less than 90%

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<p>7</p>	<p>a) 1PC=0.2g b) NET WEIGHT PAPER CASE: 2.0kg GROSS WEIGHT: 4.0kg</p>	
<p>8</p>	<p>Output Inspection standard</p> <p>Output inspection standard is executed according to 《GB/T2828.1-2003》.</p>	
<p>9</p>	<p><b>Reflow Process Condition</b> 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"> <li>1. Preheat Zone: This zone brings the temperature at a controlled rate, typically 1~2.5°C/s.</li> <li>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.</li> <li>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.</li> <li>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 2~5°C/s.</li> <li>5. Sensitivity change should within ±3dB after re-flow process and at room temperature for 30 minutes at least.</li> </ol> 