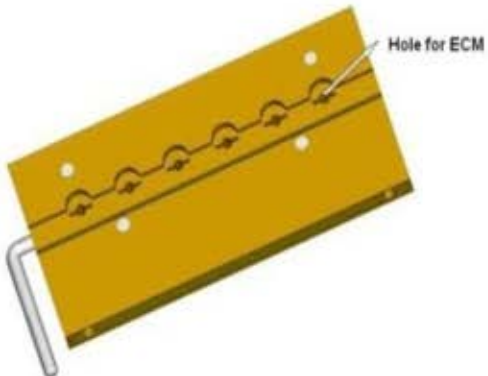


Electret Condenser Microphone

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NOTES:

	<p>□ All the soldering procedures upon microphones must be completed in a metallic device and the temperature of the soldering iron must be limited to $360 \pm 10^\circ\text{C}$ and the soldering time should not exceed 3 seconds. Operators, the soldering fixture and the soldering iron must be statically grounded under each soldering process.</p> <p>Hole size: MIC Diameter + 0.05mm Hole height: MIC Height - 0.2mm</p>
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1. ELECTRICAL SPECIFICATIONS

Standard Conditions

Ordinary Temperature	5 to 35°C
Ordinary Humidity	45 to 85%
Ordinary air pressure	86 to 106kPa

Basic Test Conditions

Temperature	$20 \pm 2^\circ\text{C}$
Humidity	63 to 67%
Ordinary air pressure	86 to 106kPa

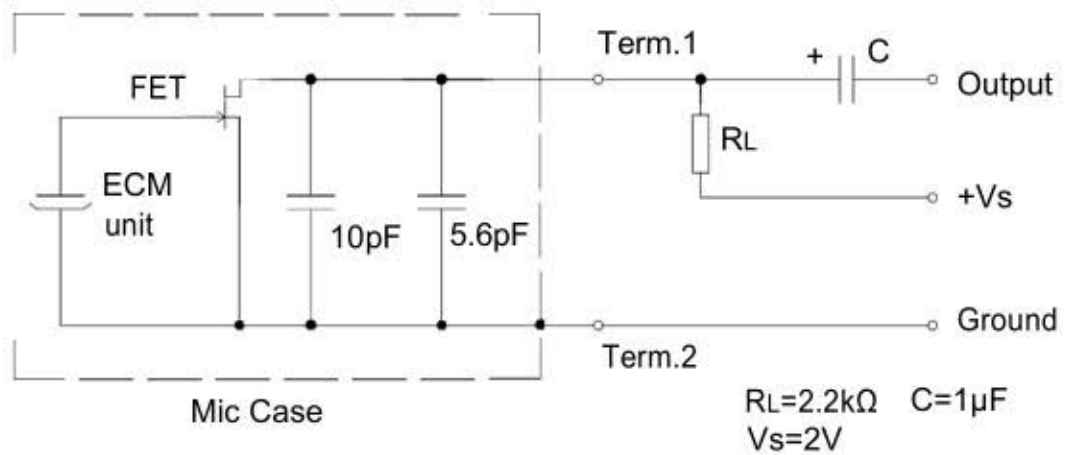
Parameter	SPEC.	Unit
Directional Characteristic	Omni-Directional	—
Sensitivity	-26 ± 3	dB
Impedance	2.2 (Max)	kΩ
S/N Ratio (A weighted network)	82 (Typ.)	dB
Maximum Input Sound Pressure Level	110	dB
	THD ≤ 4%	
Standard Operating Voltage	2.0	Vdc
Operating Voltage Range	1.0~10.0	Vdc
Decrease Voltage Characteristics(Vs=2.0 to 1.5V dc)	-3(Max)	dB
Current Consumption	500 (Max)	μA
Standard Test Circuit	See Fig. 1	—
Frequency Response Characteristic	See Fig. 2	—
Memo	Standard test condition	$R_L=2.2\text{k}\Omega$, $V_s=2.0\text{V dc}$ (@f=1kHz, Pin=1Pa, 0dB=1V/Pa,L=50cm)

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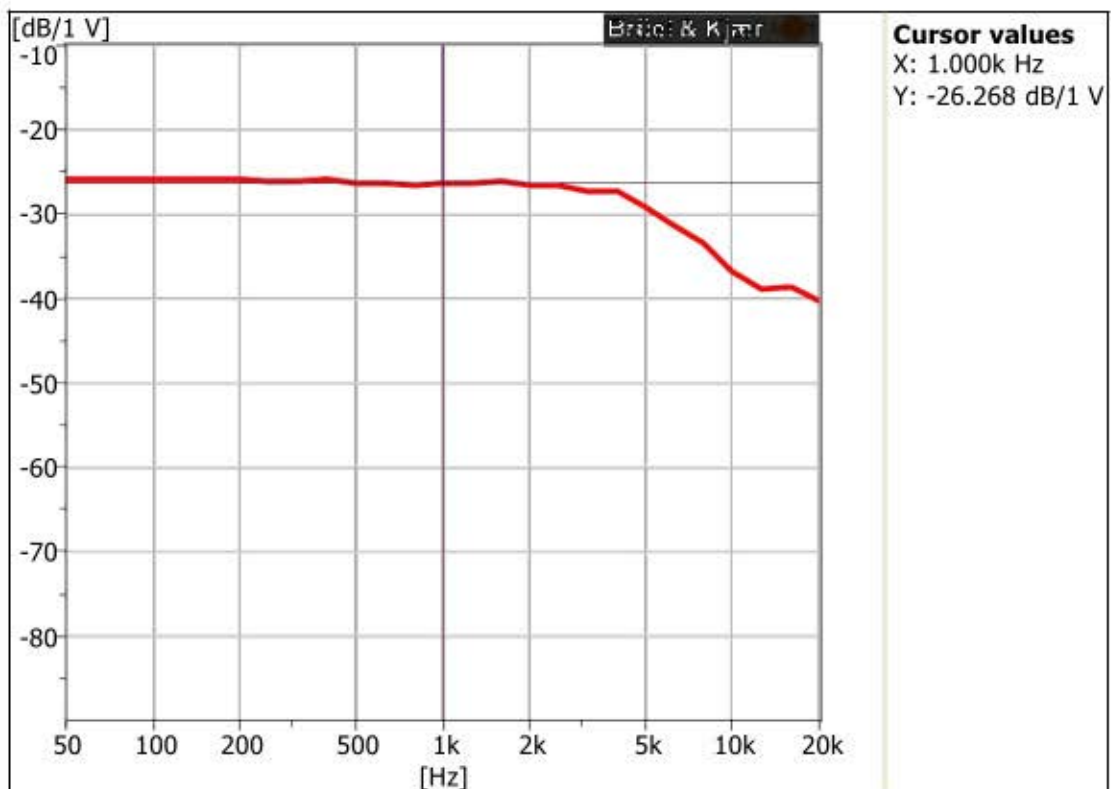
2. STANDARD TEST CIRCUIT

Fig.1



3. TYPICAL FREQUENCY RESPONSE

Fig.2



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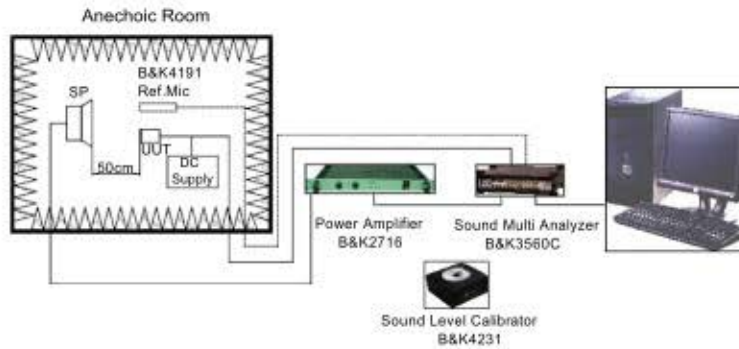
4. RELIABILITY

Item		Test conditions	Evaluation standard
1	Hi-Temp. Test	The microphone unit must be subjected to +80°C for 100 Hours and exposed to room temperature for 3 Hours.	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.
2	Low-Temp. Test	The microphone unit must be subjected to -40°C for 100 Hours and exposed to room temperature for 3 Hours.	
3	Humidity & Heat Test	The microphone unit must be subjected to +55°C, 85% RH-for 100 Hours and exposed to room temp for 3 Hours.	
4	Thermal Shocking Test	The microphone unit must be subjected to following condition [+80°C 0.5H → room temp 1H → -40°C 0.5H → room temp 1H] at 10cycle.	
5	Vibration Test	The microphone unit must be subjected to a procedure that be vibrating for two hours from each of the Three directions(x y z) with a frequency of 10-55Hz and a 1.52mm-high amplitude.	
6	Dropping Test	The microphone unit must be subjected to a procedure that be dropping to a slippery marble floor for 5 times from a 1.0-meter-high without package.	
7	Storage Temperature	-35°C~+65°C	
8	Operating Temperature	-35°C~+65°C	

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5. MEASUREMENT SYSTEM:



6. APPEARANCE & DIMENSION (Unit : mm)

