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## Microphone Electret Condensor

Description :  $\Phi 6.0 \times 1.5 \text{mm} (\pm 0.2 \text{mm}) -56 \pm 3 \text{dB}$   
Testing Voltage: 4.5V  
Testing Bias Resistor: 2.2K $\Omega$   
Insulating Resistance: >500M $\Omega$ / 1 minute

### Electrical Characteristics:

Operation condition: Ambient temperature:  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ ; Relative humidity:  $\leq 85\%$   
Storage condition: Ambient temperature:  $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ ; Relative humidity: 45%~75%

Sensitivity :  $-56 \pm 3 \text{ dB}$  (0dB=1V/uBa, 1 KHz)  
Sensitivity Reduction: -3 dB (F=1KHz Pin=1Pa V=2 $\rightarrow$ 1.5V)  
Standard Operation Voltage: 1.5 VDC  
Max. Operation Voltage: 10 VDC  
Output Impedance: 1.5K $\Omega$ (f=1KHz Pin=1Pa)  
Frequency: 70Hz to 10000Hz +/-3dB  
Max. Current Consumption: 500uA(f=1KHz Pin=1Pa)  
Signal To Noise Ratio: > 58 dB(f=1KHz Pin=1Pa A=cure)  
Housing Material: AL  
Regulations: ROHS

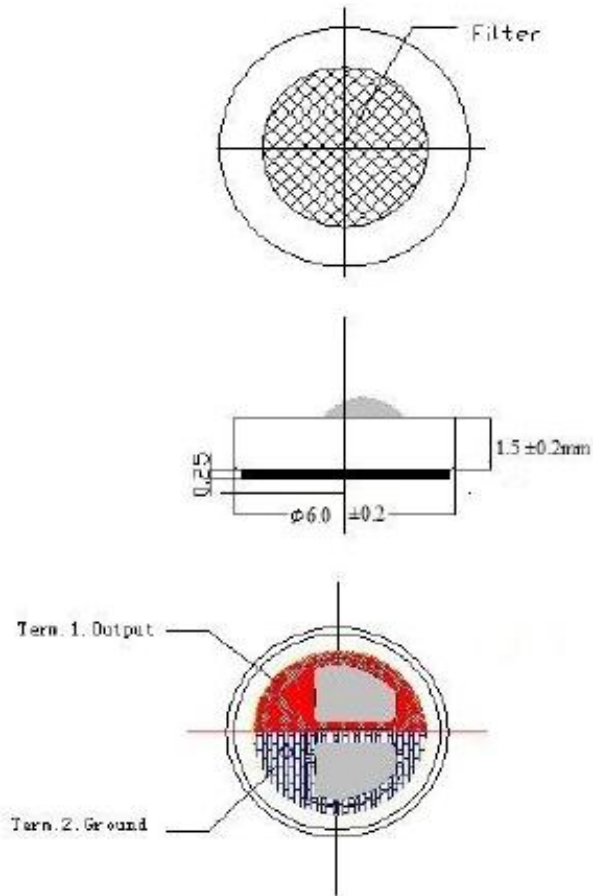
# Datasheet

Item no. 1564571

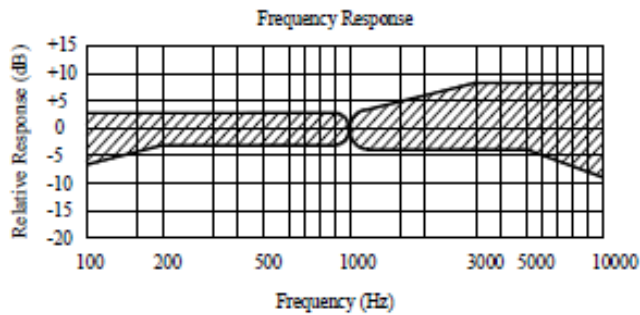
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## Appearance Drawing

Unit:mm



## Frequency Response



Microphone Response Tolerance Window

Frequency (Hz)	Lower (dB)	Upper (dB)
100	-6	+3
200	-3	+3
900	-3	+3
1000	0	0
1100	-3	+3
3000	-3	+8
5000	-3	+8
10000	-8	+8

## Microphone test setup

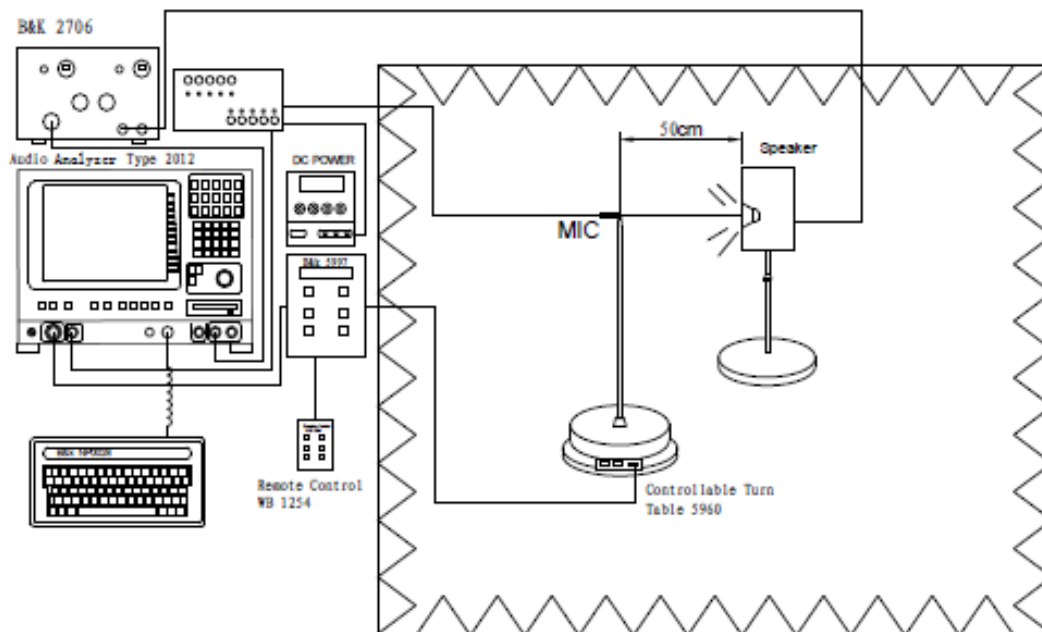


Figure 2: Microphone test setup for L=50cm test

**Measuring circuit** (Test Condition  $V_s=4.5V$   $R_L=2.2K\Omega$   $T_a=20^\circ C$ )

