



## Electret Condenser Microphone Unit EM8025

### 1. Specification:

- 1-1) Directivity [方向特性] ..... Uni Directional
- 1-2) Sensitivity [靈敏度] .....  $-37.0 \pm 3.0\text{dB}$ , (at  $f = 1\text{kHz}$ ,  $0\text{dB} = 1\text{V/Pa}$ ) Far Field Setup ( $L=50\text{cm}$ )  
 $V_{cc} = 1.5\text{V}$ ,  $R_L = 2.0\text{k}\Omega$
- 1-3) Directionality..... Above  $12.0\text{dB}$  (at  $400\text{Hz} \sim 4000\text{Hz}$ ,  $180^\circ \pm 45^\circ$ )
- 1-4) Output Impedance [阻抗] .....  $1.5\text{k}\Omega \pm 30\%$ , (at  $f = 1\text{kHz}$ )
- 1-5) S/N Ratio [信噪比] ..... Typ. $70.0\text{dB}$ , (at  $f = 1\text{kHz}$ ,  $P_{in} = 1\text{Pa}$ ), (A Weighted)
- 1-6) Operating Voltage Range [工作電壓範圍] .....  $1.5\text{V}$  ( $1.1\text{V} \sim 9.0\text{V}$ )
- 1-7) Current Consumption [電流消耗] .....  $400\mu\text{A}$
- 1-8) Maximum Input Sound Pressure Level [音壓] .....  $113\text{dB S.P.L.}$  (at  $f = 1\text{kHz}$ )
- 1-9) Weight [重量] ..... Max  $1.0\text{g}$
- 1-10) Capacitor (Built in) [電容 (內置)] ..... See Note\*
- 1-11) Cloth [布] ..... See Note\*\*

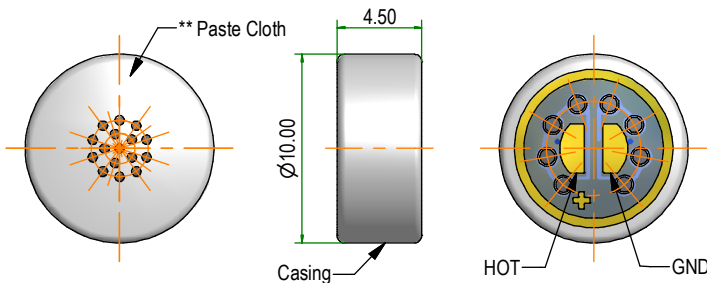
**\* Note**

- EM8025 : Built-in Capacitor = None
- EM8025J : Built-in Capacitor =  $10\text{pF}$
- EM8025K : Built-in Capacitor =  $33\text{pF}$
- EM8025N : Built-in Capacitor =  $33\text{pF}+10\text{pF}$

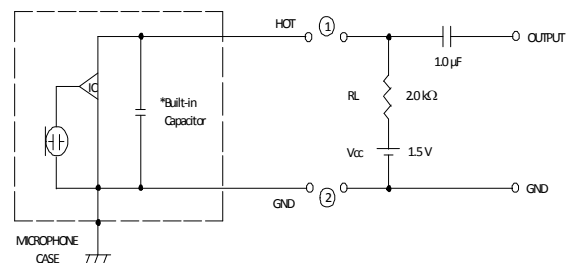
**\*\* Note**

- EM8025 : No Cloth
- EM8025Y : Dust Cloth

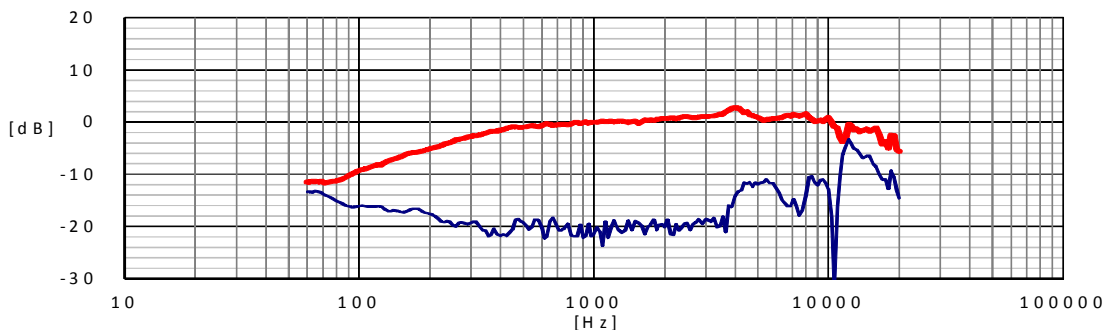
### 2. Appearance and Dimension [mm]



### 3. Electrical Circuit



### 4. Frequency Response



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