



Electret Condenser Microphone Unit EM8027

1. Specification:

- 1-1) Directivity [方向特性] Omni Directional
- 1-2) Sensitivity [靈敏度] $-32.0 \pm 3.0\text{dB}$, (at $f = 1\text{kHz}$, $0\text{dB} = 1\text{V/Pa}$) Far Field Setup ($L=50\text{cm}$)
 $V_{cc} = 3.0\text{V}$, $R_L = 2.0\text{k}\Omega$
- 1-3) Output Impedance [阻抗] $1.4\text{k}\Omega \pm 30\%$, (at $f = 1\text{kHz}$)
- 1-4) S/N Ratio [信噪比] Typ. 70.0dB , (at $f = 1\text{kHz}$, $P_{in} = 1\text{Pa}$), (A Weighted)
- 1-5) Operating Voltage Range [工作電壓範圍] 3.0V ($1.2\text{V} \sim 10.0\text{V}$)
- 1-6) Current Consumption [電流消耗] $450\mu\text{A}$
- 1-7) Maximum Input Sound Pressure Level [音壓] 109dB S.P.L. (at $f = 1\text{kHz}$)
- 1-8) Weight [重量] Max 0.2g
- 1-9) Capacitor (Built in) [電容 (內置)] See Note*
- 1-10) Cloth [布] See Note**

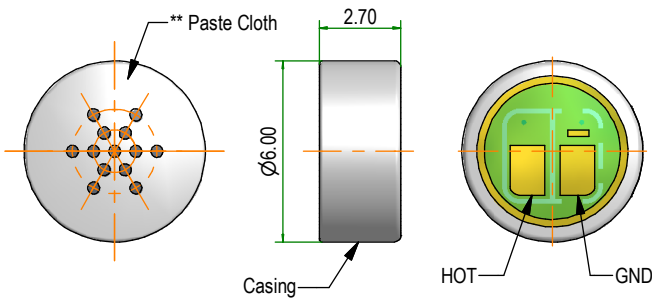
*** Note**

- EM8027 : Built-in Capacitor = None
- EM8027J : Built-in Capacitor = 10pF
- EM8027K : Built-in Capacitor = 33pF
- EM8027N : Built-in Capacitor = $33\text{pF}+10\text{pF}$

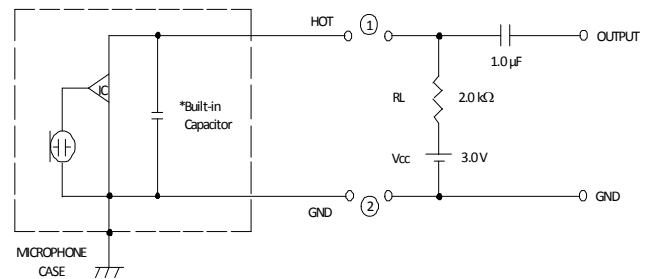
**** Note**

- EM8027 : No Cloth
- EM8027Y : Dust Cloth

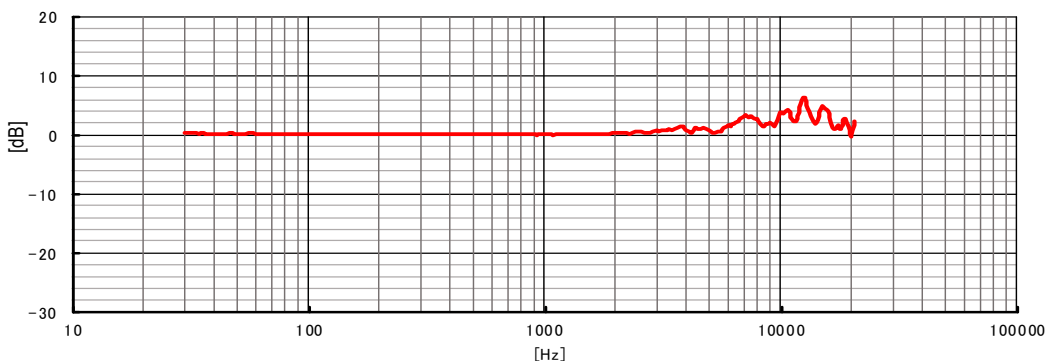
2. Appearance and Dimension [mm]



3. Electrical Circuit



4. Frequency Response



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