



Electret Condenser Microphone Unit EM8029

1. Specification:

- 1-1) Directivity [方向特性] Omni Directional
- 1-2) Sensitivity [靈敏度] $-41.5 \pm 3.0\text{dB}$, (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. 62.0dB , (at $f = 1\text{kHz}$, 1Pa) (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) Black Dot Marking [黒点マーキング] See Note**

*** Note**

EM8029Z16 : Built-in Capacitor = 220pF

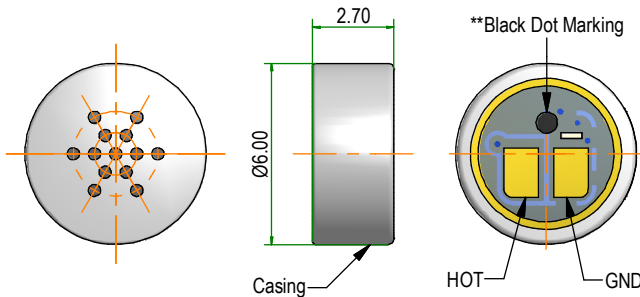
EM8029Z18 : Built-in Capacitor = $220\text{pF} + 2.7\text{pF}$

**** Note**

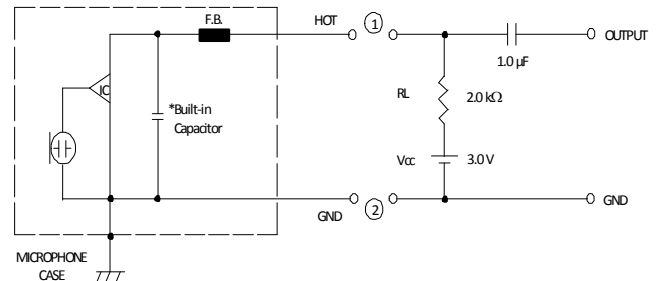
EM8029Z16 : Black Dot Marking

EM8029Z18 : No Dot Marking

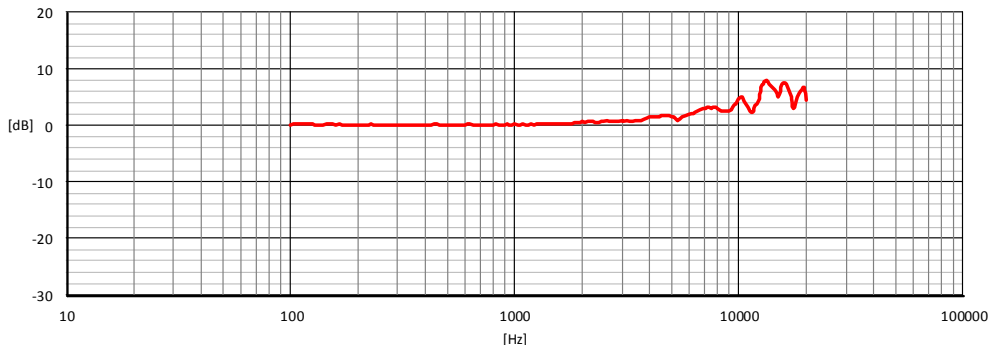
2. Appearance and Dimension [mm]



3. Electrical Circuit



4. Frequency Response



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