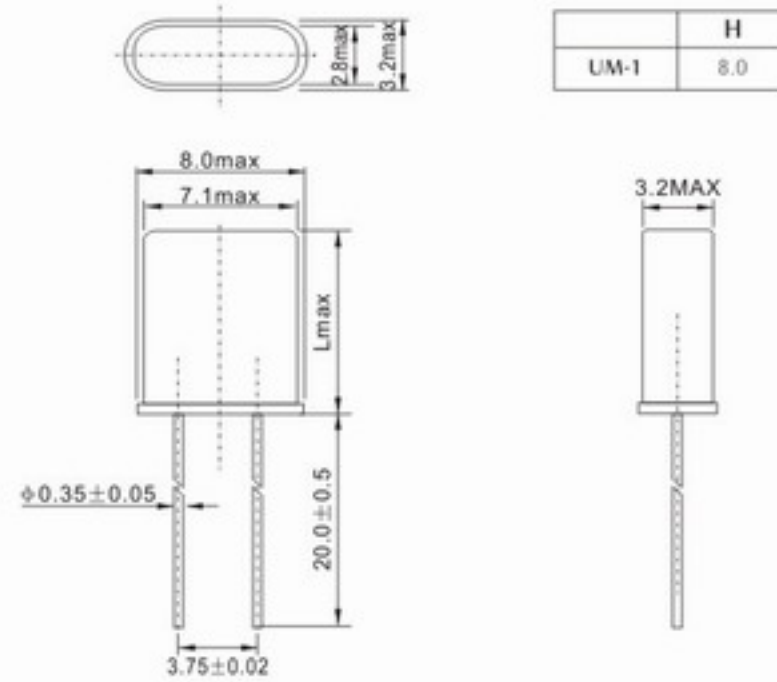


## UM-1

## 外形尺寸 · DIMENSIONS(mm)



## 技术参数 · PARAMETERS

| 参 数  | PARAMETER                      | SPECIFICATION                         |
|------|--------------------------------|---------------------------------------|
| 频率范围 | Frequency Range (MHz)          | 8.0~200.0MHz                          |
| 振动模式 | Operation Mode                 | See Table 2                           |
| 负载电容 | Load Capacitance CL (PF)       | 20PF Std. 8 to 50PF Series available  |
| 调整频差 | Frequency Tolerance FL (ppm)   | ± 10ppm Std. ± 2.5~ ± 20ppm available |
| 温度频差 | Temperature Tolerance TL (ppm) | ± 10ppm Std. (See Table 3)            |
| 工作温度 | Operating Temperature To (℃)   | -20℃ to +70℃ Std. (See Table 3)       |
| 存储温度 | Storage Temperature ST (℃)     | -55℃ to +85℃                          |
| 谐振温度 | Motional Resistance Rs (Ω)     | See Table 2                           |
| 静态电容 | Shunt Capacitance Co (pF)      | 5.0PF max.                            |
| 激励功率 | Drive Level DL (μW)            | 100 μW std. 0.01~ 500 μW available    |
| 绝缘电阻 | Insulation Resistance IR (MΩ)  | 500MΩ (DC100 ± 10V) Min.              |
| 年老化率 | Aging (ppm/year)               | ± 3ppmMax.                            |

TABLE 1

## 振动模式与谐振电阻 · OPERATION MODE AND RS

## 温度频差 · FREQUENCY-TEMPERATURE TOLERANCE

| TYPE<br>FREQUENCY | MODE                                      | UM-1<br>(Ω MAX) |
|-------------------|---|-----------------|
| 10~15MHz          | FUND                                      | 50              |
| 15~20MHz          | FUND                                      | 50              |
| 20~25MHz          | FUND/3 <sup>rd</sup> Overtone             | 45              |
| 25~30MHz          | FUND/3 <sup>rd</sup> Overtone             | 35              |
| 30~75MHz          | 3 <sup>rd</sup> /5 <sup>th</sup> Overtone | 30              |
| 75~100MHz         | 3 <sup>rd</sup> /5 <sup>th</sup> Overtone | 30/60           |
| 100~200MHz        | 5 <sup>th</sup> Overtone                  | 60              |

TABLE 2

● RECOMMENDED 推荐使用 ○ AVAILABLE 可用

| CUTTING | TEMP.<br>RANGE | TOLERANCE(ppm) |      |      |      |      |
|---------|----------------|----------------|------|------|------|------|
|         |                | ± 5.0          | ± 10 | ± 15 | ± 20 | ± 30 |
| AT      | 0~+50℃         | ○              | ○    | ○    |      |      |
|         | -10~+60℃       | ●              | ●    | ○    | ○    |      |
|         | -20~+70℃       | ●              | ●    | ○    | ○    | ○    |
|         | -30~+80℃       | ○              | ●    | ○    | ○    | ○    |
|         | -40~+85℃       | ○              | ●    | ○    | ○    | ○    |

TABLE 3