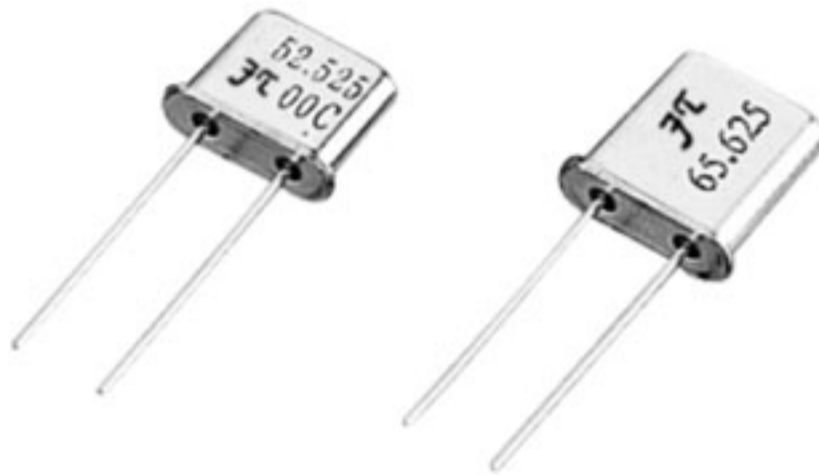


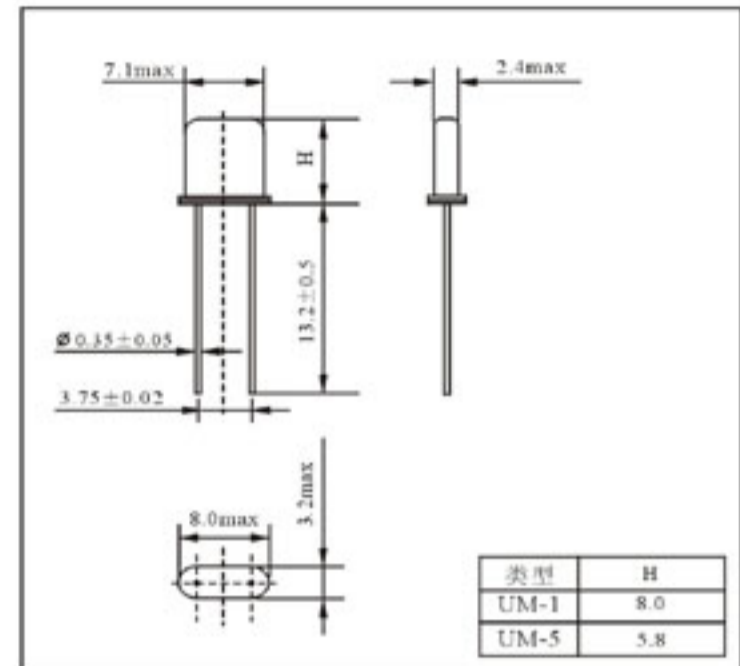
## QUARTZ CRYSTAL RESONATOR

## 石英晶体谐振器

## UM-1/UM-5 DIP TYPE



## DIMENSIONS (Unit:mm) 外形尺寸



## PART NUMBER GUIDE 部件号示例 e.g. FTX65.625M20U1 (\*U-UM-1 U5UM-5)

|    | Quartz Crystal Resonator<br>石英晶体谐振器 | Frequency<br>频率 | Load Capacitance<br>负载电容 | *Package Type<br>盒形 |
|----|-------------------------------------|-----------------|--------------------------|---------------------|
| FT | X                                   | 65.625MHz       | 20                       | U1                  |

## 1.PARAMETERS 技术参数

| PARAMETER                   | 参数                 | SPECIFICATION 规格   |
|-----------------------------|--------------------|--|
| Frequency Range             | 频率范围 (MHz)         | 8.0MHz~125.0MHz UM-1/8.0MHz~125.0MHz UM-5                      |
| Operation Mode              | 振动模式               | See Table 2 见表2  |
| Load capacitance $C_L$      | 负载电容 (pF)          | 20pF Std. 8 to 35pF series available                           |
| Frequency Tolerance $F_L$   | 调整频差 (ppm)         | $\pm 10$ ppm@25°C Std. ( $\pm 5$ ppm~ $\pm 100$ ppm available) |
| Temperature Tolerance $T_L$ | 温度频差 (ppm)         | $\pm 10$ ppm Std. (See Table 3 见表3)                            |
| Operating Temperature $T_O$ | 工作温度 (°C)          | -20°C to +70°C Std. (See Table 3 见表3)                          |
| Storage Temperature $S_T$   | 储存温度 (°C)          | -40°C to +85°C   |
| Motional Resistance $R_c$   | 谐振电阻 ( $\Omega$ )  | See Table 2 见表2  |
| Shunt Capacitance $C_o$     | 静态电容 (pF)          | 7pF max  |
| Drive Level $D_L$           | 激励电平 (mW)          | 0.01mW~1mW   |
| Insulation Resistance $I_L$ | 绝缘电阻 (M $\Omega$ ) | 500( DC500 $\pm 10$ V ) min                                    |
| Aging@25°C                  | 年老化率 (ppm/y)       | $\pm 5$ ppm max  |

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## 2. OPERATION MODE AND RS 振动模式与谐振电阻

| FREQUENCY     | TYPE | MODE                                      | UM-1<br>( $\Omega_{max}$ ) | UM-5<br>( $\Omega_{max}$ ) |
|---------------|------|---|----------------------------|----------------------------|
| 10MHz~15MHz   |      | Fund                                      | 40                         |                            |
| 15MHz~20MHz   |      | Fund                                      | 30                         | 40                         |
| 20MHz~25MHz   |      | Fund                                      | 25                         | 35                         |
| 25MHz~30MHz   |      | Fund                                      | 40/60                      | 40/60                      |
| 30MHz~75MHz   |      | 3 <sup>rd</sup> /5 <sup>th</sup> Overtone | 60/70                      | 60/70                      |
| 75MHz~100MHz  |      | 3 <sup>rd</sup> /5 <sup>th</sup> Overtone | 70/80                      | 70/80                      |
| 100MHz~125MHz |      | 5 <sup>th</sup> Overtone                  | 80                         | 80                         |

## 3. FREQUENCY-TEMPERATURE TOLERANCE 温度频差

• Recommended 推荐使用      ○ Available 可用

| Cutting<br>切型 | Temp<br>Range | Tolerance(ppm) |          |          |          |          |
|---------------|---------------|----------------|----------|----------|----------|----------|
|               |               | $\pm 5.0$      | $\pm 10$ | $\pm 15$ | $\pm 20$ | $\pm 30$ |
| AT            | 0°C~+50°C     | ○              | ○        | ○        | ○        | ○        |
|               | -10°C~+60°C   |                | ●        | ○        | ○        | ○        |
|               | -20°C~+70°C   |                |          | ○        | ●        | ○        |
|               | -30°C~+80°C   |                |          |          | ○        |          |
|               | -40°C~+85°C   |                |          |          |          | ○        |