

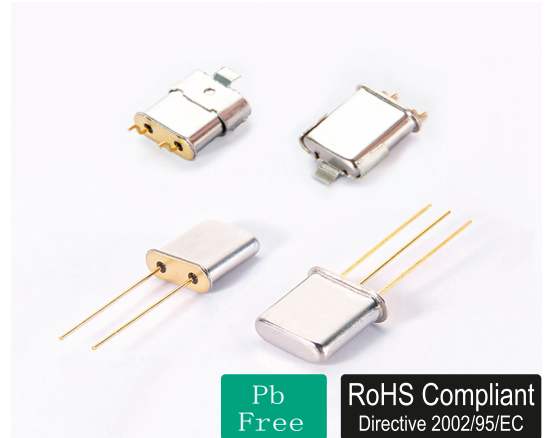
# UM-1 Crystal

## FEATURE

- Resistance weld completely sealed type.
- The frequency stability is good, the reliability is high.
- Copes with high density mounting and is the optimum for mass production.
- Pb-free and RoHS/Green compliant.

## APPLICATIONS

- This type crystal units is designed for small mounting space and high Stability. It can be used in mobile communication(cordless phone, pagersBP). Also have the best ability against shock.



## Electrical Specifications 电气参数

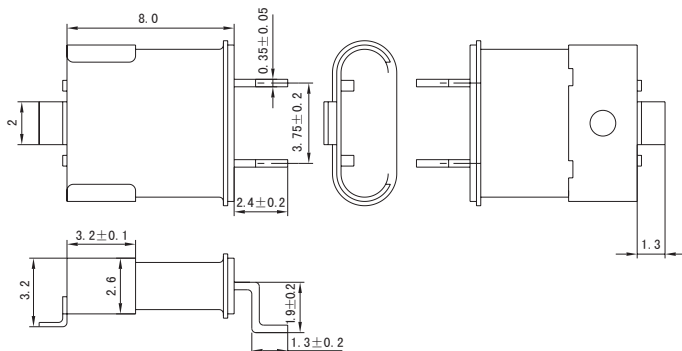
型号	Holder Type	UM - 1
频率范围	Frequency Range	8.000 to 100 MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) (at 25°C)	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$
温度频差	Frequency Drift	$\pm 10\text{ppm}$ to $\pm 30\text{ppm}$ ※ (See Notes)
工作温度范围	Operating Temperature Range	-20°C - +70°C / -40°C - +85°C
储存温度范围	Storage Temperature Range	-40°C - +85°C / -55°C - +125°C
老化	Aging (25°C)	$\pm 3\text{ppm}$ / year Maximum
静电容	Shunt Capacitance (C0)	7pF maximum
激励功率	Drive Level	100 $\mu\text{W}$ Typical
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at 100V.D.C
负载电容	Load Capacitance (CL)	Suggested by customer

※Notes:  $\pm 10$ ,  $\pm 20$ ,  $\pm 30\text{ppm}$  (-20°C to +70°C)  
 $\pm 20$ ,  $\pm 30$ ,  $\pm 50\text{ppm}$  (-40°C to +85°C) or depends on customer

## Equivalent Series Resistance and Mode of Operation 等效阻抗和振荡模式

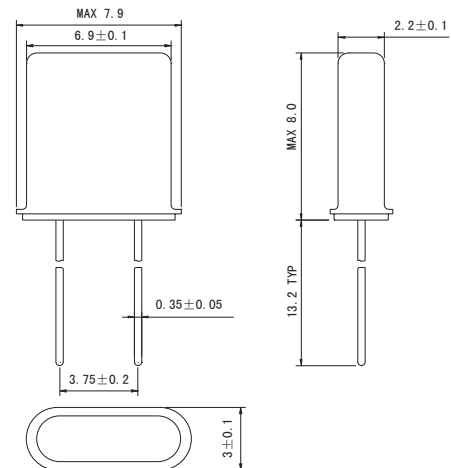
Frequency Range 频率范围	ESR ( ) 等效阻抗	Mode 振荡模式
$8.000 \leq f < 12.000 \text{ MHz}$	25Max	基频 Fundamental
$12.000 \leq f < 50.000 \text{ MHz}$	30Max	基频 Fundamental
$24.000 \leq f < 100.000 \text{ MHz}$	40Max	三次泛音 Third Overtone

### GULL WING (夹持器)



## Mechanical Dimensions 外型尺寸

TWO LEADS (两引线) UNIT (单位): mm (毫米)



THREE LEADS (三引线) UNIT (单位): mm (毫米)

