

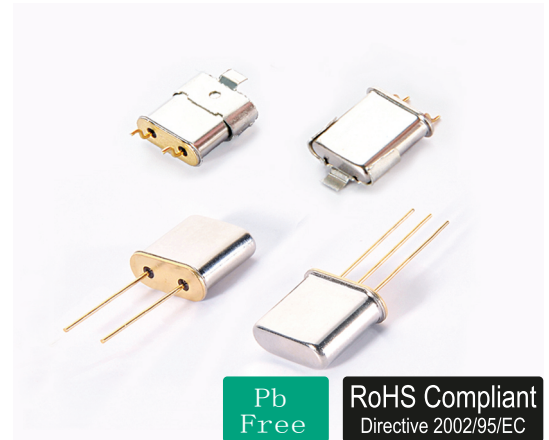
# UM-5 Crystal

## 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.



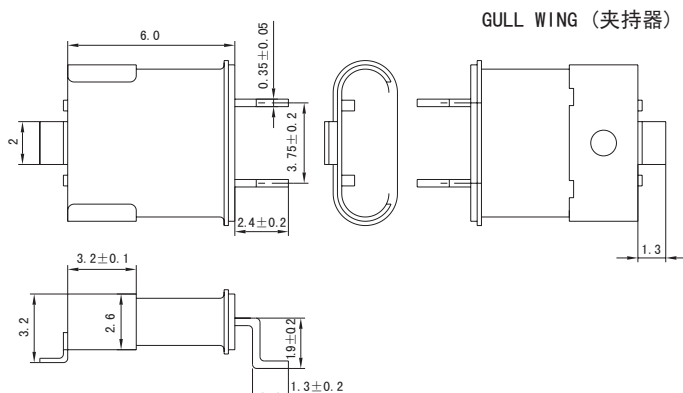
## Electrical Specifications 电气参数

型号	Holder Type	UM - 5
频率范围	Frequency Range	10.000 to 100 MHz
调整频差	Frequency Tolerance ( $\Delta F$ ) (at 25°C)	$\pm 10$ ppm to $\pm 30$ ppm
温度频差	Frequency Drift	$\pm 10$ ppm to $\pm 30$ 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 / -45°C - +125°C
老化	Aging (25°C)	$\pm 3$ ppm/ year Maximum
静电容	Shunt Capacitance (C0)	7pF maximum
激励功率	Drive Level	100 $\mu$ W Typical
绝缘阻抗	Insulation Resistance (Rs)	500 Megaohms Minimum at D.C 100V
负载电容	Load Capacitance (CL)	Suggested by customer

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

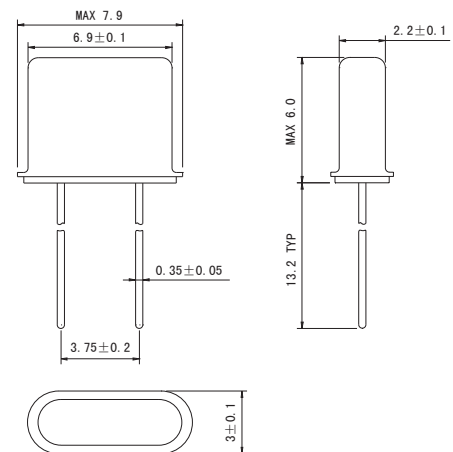
## Equivalent Series Resistance and Mode of Operation 等效阻抗和振荡模式

Frequency Range 频率范围	ESR ( ) 等效阻抗	Mode 振荡模式
10.000 $\leq f <$ 14.000 MHz	50Max	基频 Fundamental
14.000 $\leq f <$ 20.000 MHz	40Max	基频 Fundamental
14.000 $\leq f <$ 40.000 MHz	30Max	基频 Fundamental
24.000 to 100.000 MHz	40Max	三次泛音 Third Overtone



## 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)

