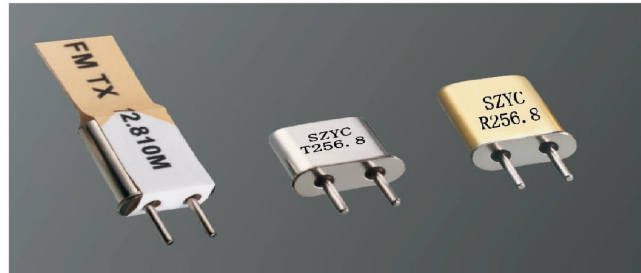




## Features

High Stability with Temperature  
Wide Frequency Range  
Low Cost to Performance  
High Heat Resistance  
Excellent Aging Characteristics



## Specifications

Type		HC-50U	HC-50T
频率范围 Frequency Range(MHz)	Fundamental	1.800~ 48.000MHz	3.000 ~ 48.000MHz
	3 <sup>rd</sup> Overtone	20.000~ 100.000MHz	20.000 ~ 100.000MHz
	5 <sup>th</sup> Overtone	60.000~ 180.000MHz	60.000 ~ 180.000MHz
振动模式 Vibration Mode		AT/BT cut,Fundamental,3 <sup>rd</sup> ,5 <sup>th</sup> Overtone	
调整频差 ( ppm)	Frequency Tolerance (at 25°C)	± 3~ ± 50ppm	
温度频差 ( ppm)	Frequency Stability Over Temperature Range	See Table 1	
储存温度 ( °C )	Storage Temperature Range	-40°C ~ +85°C	
等效电阻 ( Ω )	Equivalent Series Resistance	See Table 2	
静态电容 ( pF )	Shunt Capacitance	7.0 pF Max	
负载电容 ( pF )	Load Capacitance	5~50pF or Series Resonance	
绝缘电阻 ( MΩ )	Insulation Resistance	≥500MΩ //DC100V ± 10V	
激励功率 ( μW )	Drive Level	0.01 μW~ 1000 μW	
老化率 ( ppm/y )	Aging	± 2ppm/year, ± 3ppm/year, ± 5ppm/year	

All specifications subject change without notice.

### Frequency Stability over Temperature Range (AT cut) (Table 1)

Temperature Range		±3ppm	±5ppm	±7ppm	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
		03	05	07	10	15	20	30	50
0~+50°C	A	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-5~+55°C	B	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-10~+60°C	C	Δ	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-20~+70°C	D	/	Δ	Δ	Δ	Δ	Δ	Δ	Δ
-30~+85°C	E	/	/	Δ	Δ	Δ	Δ	Δ	Δ
-40~+85°C	F	/	/	/	/	Δ	Δ	Δ	Δ
-40~+105°C	G	/	/	/	/	Δ	Δ	Δ	Δ

# HC-50U & HC-50T

## ■ Equivalent Series Resistance (ESR) (Table 2)

Freq. Range (MHz)	Mode of Oscillation	ESR ( $\Omega$ Max)
1.800~2.999	AT.Fund	400
3.000~4.999	AT.Fund	90
5.000~9.999	AT.Fund	40
10.000~48.000	AT.Fund	25
20.000~100.000	3 <sup>rd</sup> Overtone	40
60.000~150.000	5 <sup>th</sup> Overtone	80

## ■ Options Available

Options Available	Item
V	Centre third lead on top
V	Vinyl sleeve on HC-50U cover
V	Laser marking
V	Special height for HC-50U
V	Special $C_1$ or $C_0$ requirement
V	Special ESR
V	Label of channel for HC-50U
V	Golden cover is available

## ■ Dimension (Unit: mm)

