

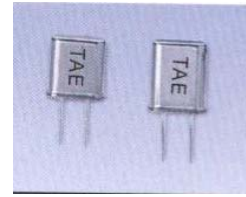
## THC-49U & THC-49T

**TAE SUNG**

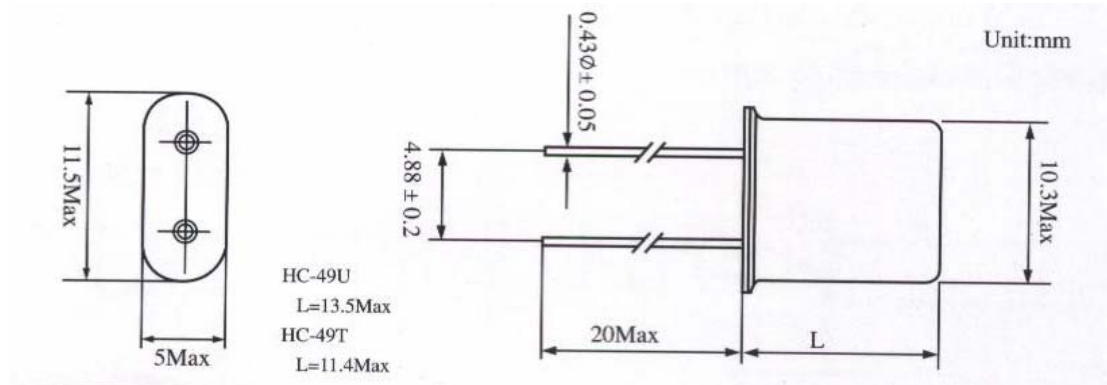
### Quartz Crystal Units THC49-U & THC-49T

**● APPLICATIONS**

Various standard frequencies ranging from 1.8432MHz up to 125MHz are available. These Crystal Units are suitable for microprocessor and Computer application



**Mechanical Dimensions(mm)**



**Electronic Specifications**

Partameter	Symb	Units	Typical	Min	Max	Condition
Frequency Range	fo	MHz		1.8432	125.000	HC-49U
				8.000	200.00	HC-49T
Frequency Tolerance	$\Delta f/fo$	PPm	$\pm 30$	$\pm 10$	$\pm 50$	At25°C
Temperature Stability	$\Delta f/fo$	PPm	$\pm 30$	$\pm 10$	$\pm 100$	At25°C
Operaging Temperature Range	T <sub>OPR</sub>	°C	-20~+70			
Storage Temperature Range	T <sub>STG</sub>	°C	-45~+85			
Equivalent Series Resistance	R <sub>1</sub>	Ω	Please see the table below			
Shunt Capacitance	C <sub>0</sub>	pF			7	
Load Capacitance	C <sub>L</sub>	pF	30	10	Series	
Insulator Resistance		MΩ		500		Dc100V±15V
Drive Level		μ W			0.1	
Aging		ppM		± 5.0		At25°C,per year

**Equivalent Series Resistance(ESR) and Mode of Operation(Mode)**

Frequency Range	Max ESR(Ω)	Mode	Frequency Range	Max ESR(Ω)	Mode
1.8432MHz to1.999MHz	500	Fundamental/AT	8.000MHz to12.999MHz	30	Fundamental
2.000MHz to 2.456MHz	450	Fundamental/AT	13.000MHz to49.999MHz	25	Fundamental
2.457MHz to2.999MHz	350	Fundamental/AT	24.000MHz to 49.999MHz	40	Fundamental
3.000MHz to 3.999MHz	90	Fundamental/AT	50.000MHz to124.999MHz	100	Third Overtone
4.000MHz to 4.999MHz	70	Fundamental/AT	125.000MHz to 149.000MHz	90	Third Overtone
7.000MHz to7.999MHz	50	Fundamental/AT	150.000MHz to 200.000MHz	150	Seventh Overtone