

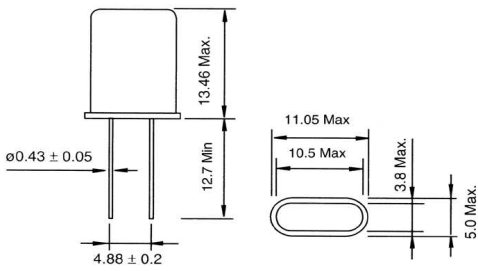
HC49U

Features:

- Excellent clock signal generator for CPU's
- Industry standard packages
- Wide frequency range

Specifications				
		Symbol	HC49U	Remarks
Frequency range		f	1.000MHz ~ 25.000MHz	Fundamental mode
			24.000MHz ~ 180.000MHz	Overtone mode
Frequency tolerance, Ta=25°C		f/f	± 3ppm ~ 50ppm	Please specify
Load capacitance		C _L	5pF ~ 50pF or series	Please specify
Temperature tolerance		f/f	±3ppm ~ ± 50ppm	Please specify
Temperature range	Storage temperature	T _{STG}	-55°C ~ +125°C	
	Operating temperature	T _{OPR}	-20°C ~ +70°C	Others are offered
Drive level			0.01 W ~ 1000 W	
Series resistance		R ₁	AS per table	25°C
Shunt capacitance		C ₀	7pF	Max
Insulation resistance		I _R	500M Ohm	
Aging		f _A	±1ppm ~ ±5ppm/Year	Please specify

Resistance of series resonance (ESR)						
Frequency (MHz)	Mode	Ohm max		Frequency (MHz)	Mode	Ohm max
1.0 ≤ f < 1.8	Fundamental	1000		4.9 ≤ f < 7.0	Fundamental	90
1.8 ≤ f < 2.0	Fundamental	700		7.0 ≤ f < 10	Fundamental	50
2.0 ≤ f < 2.5	Fundamental	500		10 ≤ f < 13.0	Fundamental	40
2.5 ≤ f < 3.0	Fundamental	200		13 ≤ f < 25	Fundamental	30
3.0 ≤ f < 3.5	Fundamental	150		24 ≤ f < 55	3rd OT	40
3.5 ≤ f < 4.9	Fundamental	100		55 ≤ f < 100	3rd/5th OT	35/60

Drawing	
HC49U  Dimensions in mm	

Order key								
Q	- 10.000000M	- HC49U	- F	- 30	- 50	- D	- 30	- I
Part	Frequency	Package	Mode of oscillation	Frequency tolerance	Temperature tolerance	Temperature range	Load capacitance	Option
Q=Quartz	M=MHz	HC49U	F=fund. 3=3.OT 5=5.OT	+/-ppm (25°C)	+/-ppm (Temp. range)	A= 0°C ~ 70°C B=-10°C ~ 60°C C=-10°C ~ 70°C D=-20°C ~ 70°C E=-40°C ~ 85°C F=-40°C ~ 105°C G=-40°C ~ 125°C H=-20°C ~ +80°C I=-10°C ~ +50°C	pF SR=series	3P=3Pin version MJ=Metal jacket TA=Taped ammpack I=Isolation washers X=Special options

Remarks: All specifications subject to change without notice!