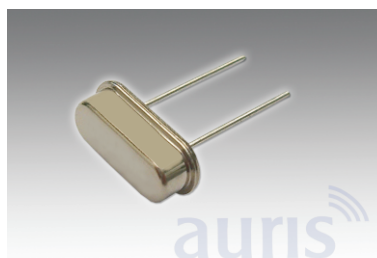




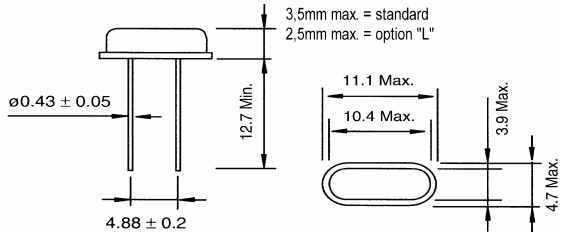
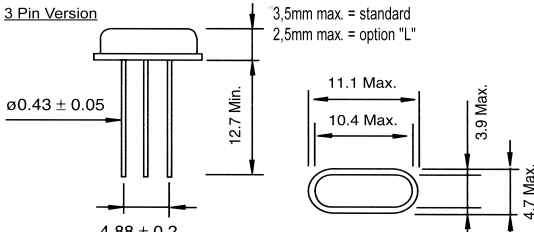
Features:

- Wide frequency range
- Low cost to performance
- Excellent for clock frequency generation
- Very low profile available


HC49US
Option: 3 Pin

Specifications			
	Symbol	HC49US	Remarks
Frequency range	f	3.2MHz ~ 40.000MHz	Fundamental mode
		30.000MHz ~ 90.000MHz	Overtone mode
Frequency tolerance, Ta=25°C	$\Delta f/f$	$\pm 3\text{ppm} \sim \pm 50\text{ppm}$	Please specify
Load capacitance	C_L	5pF ~ 50pF or series	Please specify
Temperature tolerance	$\Delta f/f$	$\pm 3\text{ppm} \sim \pm 50\text{ppm}$	Please specify
Temperature range	Storage temp.	T_{STG}	-40°C ~ +85°C
	Operating temp.	T_{OPR}	-40°C ~ +85°C
Drive level	Maximum drive level	M_{DL}	1000μW
	Recommended drive level	R_{DL}	10μW ~ 100μW
Series resistance	R_1	As per table	25°C $\pm 3^\circ\text{C}$
Shunt capacitance	C_0	7pF	Max
Insulation resistance	I_R	500M Ohm	Min
Aging	Δf_A	$\pm 5\text{ppm/Year max}$	Others are offered

Resistance of series resonance (ESR)						
Frequency (MHz)	Mode	Ohm max		Frequency (MHz)	Mode	Ohm max
3.570 ≤ f < 3.999	Fundamental	140		8.000 ≤ f < 9.999	Fundamental	70
4.000 ≤ f < 4.999	Fundamental	110		10.000 ≤ f < 14.999	Fundamental	50
5.000 ≤ f < 5.999	Fundamental	90		15.000 ≤ f < 35.000	Fundamental	35
6.000 ≤ f < 7.999	Fundamental	80		30.000 ≤ f < 90.000	3rd OT	70

Drawing			
HC49US		HC49US 3Pin	
		<u>3 Pin Version</u> 	
Dimensions in mm			

Order key								
Q	- 10.000000M	- HC49US	- 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	HC49US	F=fund. 3=3.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 H= -20°C ~ +80°C I = -10°C ~ +50°C	pF SR=series	3P=3Pin version L=Low height TR=Taped reeled I=Isolation washers X=Special options