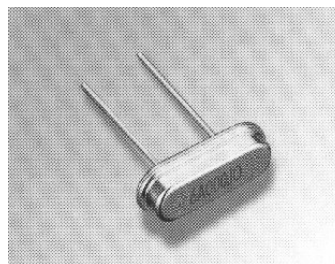




Features:

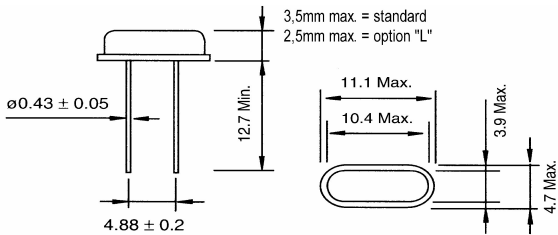
- Wide frequency range
- Low cost to performance
- Excellent for clock frequency generation
- Very low profile available



HC49US

Specifications			
		Symbol	HC49US
Frequency range		f	3.2MHz ~ 40.000MHz
			30.000MHz ~ 90.000MHz
Frequency tolerance, Ta=25°C		$\Delta f/f$	$\pm 3\text{ppm} \sim \pm 50\text{ppm}$
Load capacitance		C_L	5pF ~ 50pF or series
Temperature tolerance		$\Delta f/f$	$\pm 3\text{ppm} \sim \pm 50\text{ppm}$
Temperature range	Storage temp.	T_{STG}	-40°C ~ +105°C
	Operating temp.	T_{OPR}	0°C ~ +70°C / -40°C ~ +105°C
Drive level	Maximum drive level	M_{DL}	1000μW
	Recommended drive level	R_{DL}	10μW ~ 100μW
Series resistance		R_1	As per table
Shunt capacitance		C_0	7pF
Insulation resistance		I_R	500M Ohm
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  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 (Tem p. 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=3P in version L=Low height TA=Taped am mpack I=Isolation washers X=Special options

Remarks: All specifications subject to change without notice!