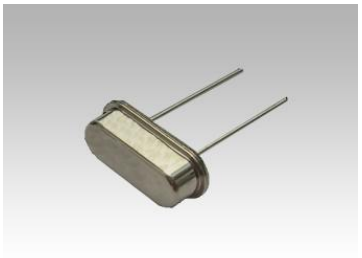
RoHS 2002/95/EC

Features:

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



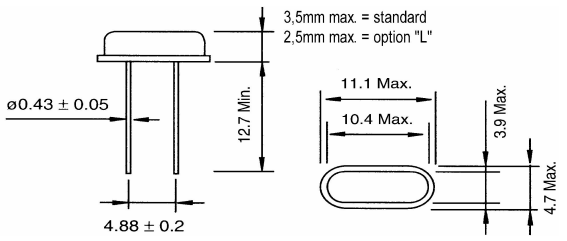
HC49US
Option: 3 Pin

Specifications				
		Symbol	*HC49US*	*Remarks*
Frequency range		f	3.2MHz ~ 40.000MHz	Fundamental mode
			30.000MHz ~ 90.000MHz	Overtone mode
Frequency tolerance,Ta=25°C		Δf/f	±3ppm ~ ±50ppm	Please specify
Load capacitance		C_L	5pF ~ 50pF or series	Please specify
Temperature tolerance		Δf/f	±3ppm ~ ±50ppm	Please specify
Temperature range	Storage temp.	T_{STG}	-40°C ~ +105°C	
	Operating temp.	T_{OPR}	0°C ~ +70°C / -40°C ~ +105°C	Others are offered
Drive level	Maximum drive level	M_{DL}	1000µW	
	Recommended drive level	R_{DL}	10µW ~ 100µW	
Series resistance		R_1	As per table	25°C ±3°C
Shunt capacitance		C_0	7pF	Max
Insulation resistance		I_R	500M Ohm	Min
Aging		Δf_A	±5ppm/Year max	Others are offered

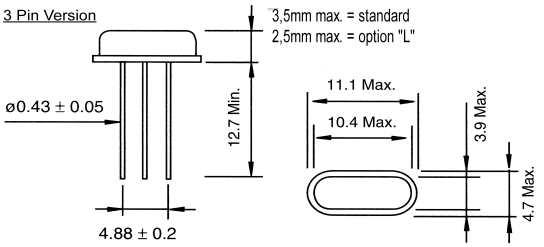
Resistance of series resonance (ESR)						
Frequency (MHz)	Mode	Ohm max		Frequency (MHz)	Mode	Ohm max
3.570 < = f < 3.999	Fundamental	140		8.000 < = f < 9.999	Fundamental	70
4.000 < = f < 4.999	Fundamental	110		10.000 < = f < 14.999	Fundamental	50
5.000 < = f < 5.999	Fundamental	90		15.000 < = f < 35.000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

Drawing

HC49US



HC49US 3Pin



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