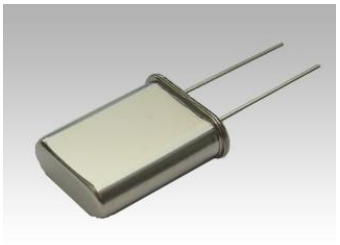
RoHS 2002/95/EC



HC49U

Features:

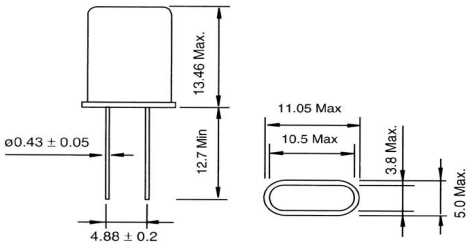
- Industry standard packages
- Wide frequency range
- Low ESR

Specifications				
		Symbol	*HC49U*	*Remarks*
Frequency range		f	1.000MHz ~ 40.000MHz	Fundamental mode
			20.000MHz ~ 180.000MHz	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 temperature	T_{STG}	-55°C ~ +125°C	
	Operating temperature	T_{OPR}	-20°C ~ +70°C	Others are offered
Drive level			0.1mW ~ 1,0mW	
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*
1.0<f<=1.5	Fundamental	1000		15.0<f<=25.0	Fundamental	30
1.5<f<=1.8	Fundamental	750		20.0<f<=25.0	(3.OT)	70
1.8<f<=2.3	Fundamental	500		25.0<f<=35.0	(3.OT)	50
2.3<f<=3.0	Fundamental	400		35.0<f<=75.0	(3.OT)	40
3.0<f<=3.5	Fundamental	150		75.0<f<=100.0	(3.OT)	35
3.5<f<=4.5	Fundamental	90		100.0<f<=150.0	(5.OT)	100
4.5<f<=7.0	Fundamental	70		125.0<f<=180.0	(7.OT)	150
7.0<f<=15.0	Fundamental	40				

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 7=7.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 TR=Taped and reeled I=Isolation washers X=Special options