

RESISTANCE WELDED HOLDER TYPE CRYSTAL UNITS

HC-49U Series

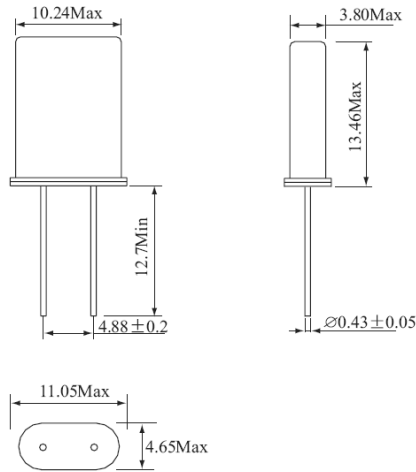
Electrical Specifications

Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	F ₀		1.8432		125	MHz
Frequency Tolerance	ΔF/ F ₀	AT 25°C	±10	±30	±50	ppm
Temperature Stability	TC	REF TO 25°C	±10	±30	±50	ppm
Operating Temperature Range	T _{OPR}		-20		+70	°C
Storage Temperature Range	T _{STG}		-40		+85	°C
Shunt Capacitance	C ₀				7	pF
Load Capacitance	CL	Customer Specified	10		Series	pF
Insulator Resistance	IR	100V _{DC}	500			MΩ
Drive Level	DL			100	500	μW
Aging	F _a	AT 25°C,per year	-5.0		+5.0	ppm

Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)

Frequency Range(MHz)	Max ESR(Ω)	Mode	Frequency Range(MHz)	Max ESR(Ω)	Mode
1.8432 to 1.999	650	Fundamental	6.000 to 7.999	50	Fundamental
2.000 to 2.999	500	Fundamental	8.000 to 12.999	35	Fundamental
3.000 to 3.499	250	Fundamental	13.000 to 32.000	25	Fundamental
3.500 to 3.999	150	Fundamental	24.000 to 29.999	60	3 rd Overtone
4.000 to 4.999	100	Fundamental	30.000 to 79.999	40	3 rd Overtone
5.000 to 5.999	80	Fundamental	80.000 to 125.000	90	5 th Overtone

Mechanical Dimensions(mm)



HC49U-A20C18-32K768

Package	Frequency Stability	Frequency Tolerance	Operating temperature Range	Load Capacitance	Nominal Frequency (In MHz)
HC49U	A=±10ppm	10=±10ppm	A=0 to +70°C	00=series	25M000=25.000MHz
HC49S	B=±20ppm	20=±20ppm	B=-20 to +70°C	10=10pF	32K768=32.768KHz
AT26	C=±30ppm	30=±30ppm	C=-40 to +85°C	18=18pF	
AT39	D=±50ppm	50=±50ppm	D=-40 to +105°C	32=32pF	
UM1	E=±100ppm	100=±100ppm			
UM5					

Through Hole Crystal Units Part Numbering System