

# RESISTANCE WELD CRYSTAL HC49U

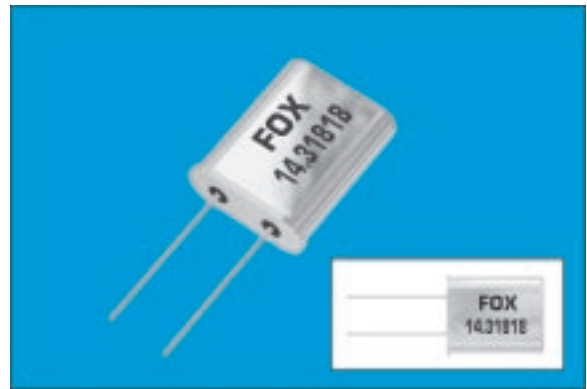
The HC49U Quartz Crystal features a rugged resistance weld package which allows for a better aging factor than its solder seal equivalent, HC18U.

## FEATURES

- Low Cost
- Industry Standard
- Wide Frequency Range
- Excellent Aging
- "AT" Cut Crystal

## OPTIONS

- Extended Temp. Ranges
- Tighter Tolerances/Stabilities
- Mylar Spacer
- Vinyl Sleeve
- Third Lead
- Tape and Reel



Actual Size



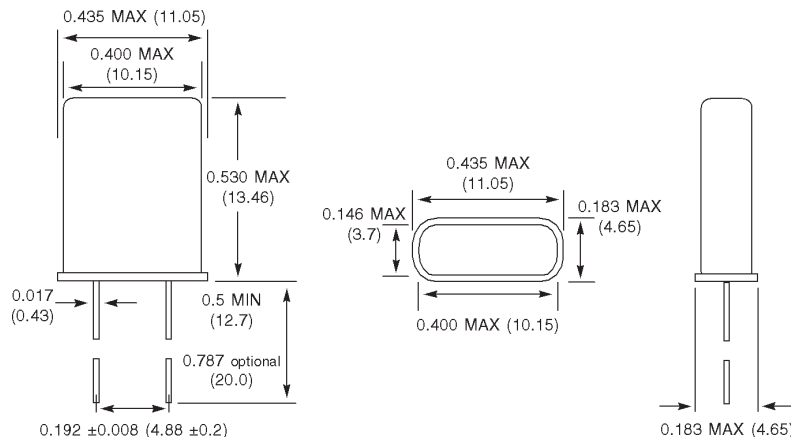
## • HC49U STANDARD SPECIFICATIONS \*

PARAMETERS	CONDITIONS	MIN	MAX	UNITS
Frequency Range		1.8432	180.000	MHz
Frequency Tolerance	Ta = 25°C	-30	+30	PPM
Frequency Stability, ref @ 25°C	Ta = -20°C ~ +70°C	-50	+50	PPM
Temperature Range				
Operating (TOPR)		-20	+70	°C
Storage (TSTG)		-30	+85	
Shunt Capacitance (Co)			7.0	pF
Load Capacitance (CL)	Customer Specified	10.0	Series	pF
Drive Level	1.8432 ~ 3.000 MHz		2.0	mW
	3.000+ ~ 180.000 MHz		1.0	
Aging	Ta = 25°C; per year	-5.0	+5.0	PPM

Frequency Range (MHz)	Operating Mode	Max ESR Ω	Frequency Range (MHz)	Operating Mode	Max ESR Ω
1.8432 ~ 2.000	Fundamental	750	6.000+ ~ 8.000	Fundamental	40
2.000+ ~ 2.400	Fundamental	500	8.000+ ~ 10.000	Fundamental	35
2.400+ ~ 3.000	Fundamental	300	10.000+ ~ 12.500	Fundamental	30
3.000+ ~ 3.200	Fundamental	200	12.500+ ~ 16.000	Fundamental	25
3.200+ ~ 3.700	Fundamental	120	16.000+ ~ 25.000	Fundamental	20
3.700+ ~ 4.200	Fundamental	100	16.000 ~ 23.000	3rd OT	60
4.200+ ~ 4.900	Fundamental	70	23.000+ ~ 65.000	3rd OT	40
4.900+ ~ 5.000	Fundamental	55	60.000 ~ 110.000	5th OT	80
5.000+ ~ 6.000	Fundamental	50	110.000 ~ 180.000	7th OT	120

\* Other tolerances, stabilities & operating temperature ranges available. Consult Fox Customer Service for specific requirements, or use crystal order form on page 6. All specifications subject to change without notice.

Rev. 5/30/98



Inch dimensions shall govern.  
 All dimensions are in inches & parenthetically in millimeters.