

# RESISTANCE WELD CRYSTAL HC49U

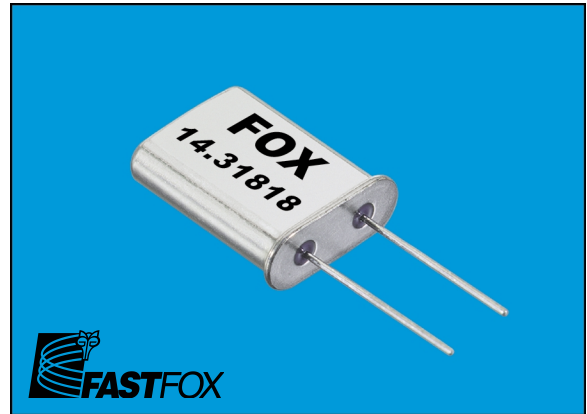
The HC49U Quartz Crystal features a rugged resistance weld package which allows for a better aging factor than its solder seal equivalent, HC18U.

## 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



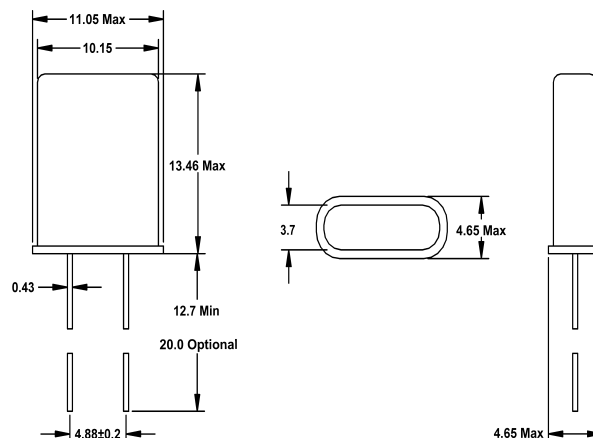
## • HC49U STANDARD SPECIFICATIONS \*

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. 03/02/00



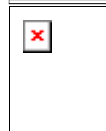
All dimensions are in millimeters.

# HC49U Standard Crystals



[HC49U Spec. Sheet](#)

[Quote/Sample Request Form](#)



If you're interested in a Fox Standard Product, you may make an [on-line purchase](#) by going to [this link](#).

<i>Frequency</i>	<i>CL</i>	<i>HC49U Part Number</i>	<i>ESR W Max</i>
1.843200	13pF	FOX018S	800
2.000000	20pF	FOX020S	500
2.097152	20pF	FOX021S	500
2.457600	32pF	FOX024S	300
3.579545	18pF	FOX036S	120
3.686400	SERIES	FOX0368S	120
3.686400	20pF	FOX0368-20	120
4.000000	SERIES	FOX040A	100
4.000000	20pF	FOX040	100
4.096000	20pF	FOX0496-20	100
4.194304	12pF	FOX041	100
4.433619	20pF	FOX0443	70
4.915200	SERIES	FOX049	55
4.915200	20pF	FOX049-20	55
5.000000	20pF	FOX05A	50
6.000000	SERIES	FOX060	40
6.000000	20pF	FOX060-20	40
6.144000	30pF	FOX061	40
6.144000	20pF	FOX061-20	40
7.372800	SERIES	FOX073	40
7.372800	20pF	FOX073-20	40
8.000000	SERIES	FOX080	35
8.000000	20pF	FOX080-20	35
8.192000	SERIES	FOX081	35
8.192000	20pF	FOX081-20	35
9.216000	SERIES	FOX092	35
9.830400	SERIES	FOX098	35
9.830400	20pF	FOX098-20	35
10.000000	SERIES	FOX100	30
10.000000	20pF	FOX100-20	30
11.000000	SERIES	FOX111	30
11.000000	20pF	FOX111-20	30
11.059200	SERIES	FOX115	30
11.059200	20pF	FOX115-20	30
12.000000	SERIES	FOX120	30
12.000000	20pF	FOX120-20	30
12.288000	SERIES	FOX128	30
12.288000	20pF	FOX128-20	30
14.318180	SERIES	FOX143	25
14.318180	20pF	FOX143-20	25

14.745600	SERIES	FOX147	25
14.745600	20pF	FOX147-20	25
16.000000	SERIES	FOX160	25
16.000000	20pF	FOX160-20	25
18.432000	SERIES	FOX184	20
18.432000	20pF	FOX184-20	20
19.660800	SERIES	FOX196	20
19.660800	20pF	FOX196-20	20
20.000000	SERIES	FOX200	20
20.000000	20pF	FOX200-20	20
22.118400	SERIES	FOX221	20
22.118400	20pF	FOX221-20	20
24.000000	SERIES	FOX240F	20
24.000000	20pF	FOX240F-20	20
24.576000	20pF	FOX245F-20	20
25.000000	20pF	FOX250F-20	20
32.000000	20pF	FOX320-20*	40
48.000000	20pF	FOX480-20*	40
50.000000	20pF	FOX500-20*	40
60.000000	20pF	FOX600-20*	40
64.000000	20pF	FOX640-20*	40

\*3rd Overtone. "F" suffix denotes fundamental Rev. 08/30/00

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Revised: 05/16/2001 00:26:43