Resistance Weld Thru-Hole Crystal

Model: HC49SLF **RoHS Compliant / Pb Free** **Rev. 3/30/2015**

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FEATURES

- Low Cost
- Stocking Standard (see page 2)
- Fundamental to 40 MHz
- Resistance Weld

OPTIONS

- Tolerances to 10 PPM
- Stabilities to 5 PPM
- Temperatures to -55ºC ~ +125ºC
- 2.5mm Height Max (HC49SSLF)

• PART NUMBER

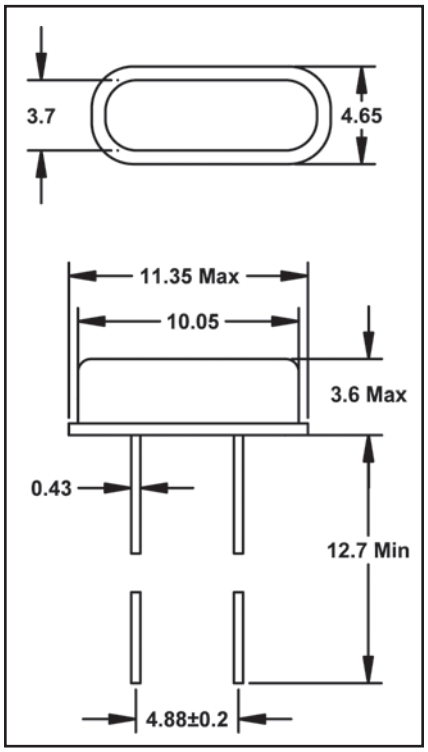
Part Number	Model Number	Frequency Range (MHz)
277LF-Frequency-xxxxx	HC49SLF	3.200 ~ 80.000

• STANDARD SPECIFICATIONS[1]

PARAMETERS	MAX (unless otherwise noted)
Frequency Range	3.200 ~ 80.000 MHz
Frequency Tolerance @ 25ºC	±50 PPM [1,3]
Frequency Stability, ref @ 25ºC	±50 PPM [1]
Temperature Range Operating (TOPR) Storage (TSTG)	 -20ºC ~ +70ºC [2] -40ºC ~ +125ºC
Shunt Capacitance (Co)	7pF
Load Capacitance (CL)	10 pF ~ Series (Customer Specified)
Drive Level	0.5 mW (0.1 mW Typical)
Aging per year	±3 PPM
Maximum Soldering Temp / Time	260ºC / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish:	Sn/Ag/Cu

[1] Other tolerances, stabilities available. Consult Fox Customer Service for specific requirements.
[2] Operating temperature ranges to -55ºC ~ +125ºC available.
[3] Crystal has a ±30ppm tolerance specification for all standard part numbers. These part numbers are listed on page 2 of this datasheet.

Note: Dimensional drawing is for reference to critical specifications defined by size measure¬ments. Certain non-critical visual attributes, such as side castellations, etc. may vary.
All specifications subject to change without notice.



All dimensions are in millimeters.

TERMINATION FINISH: Sn/3.0Ag/0.5Cu

Frequency Range (MHz)	Operating Mode	Max ESR Ω
3.200 ~ 3.500	Fundamental	300
3.500+ ~ 4.000	Fundamental	200
4.000+ ~ 5.000	Fundamental	150
5.000+ ~ 6.000	Fundamental	120
6.000+ ~ 7.000	Fundamental	100
7.000+ ~ 9.000	Fundamental	80
9.000+ ~ 13.000	Fundamental	60
13.000+ ~ 20.000	Fundamental	40
20.000+ ~ 40.000	Fundamental	30
27.000 ~ 70.000	3rd OT	100
70.000+ ~ 80.000	3rd OT	80

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• HC49SLF Standard Crystals

Part Number	Frequency	Tolerance	Stability	Temp Range	CL
FOXSLF/036S	3.579545	± 30 ppm	± 50 ppm	-20 to +70 C	18pF
FOXSLF/0368S	3.686400	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/0368-20	3.686400	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/040A	4.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/040	4.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/073-20	7.372800	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/080	8.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/080-20	8.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/100-20	10.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/115	11.059200	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/115-20	11.059200	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/120	12.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/120-20	12.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/147-20	14.745600	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/160	16.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/160-20	16.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/184-20	18.432000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/200	20.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series
FOXSLF/200-20	20.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF
FOXSLF/250F-20	25.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF