Resistance Weld SMD Crystal

Model: HC49SDLF **RoHS Compliant / Pb Free** **Rev. 5/2/2013**

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FEATURES

- Stock Standard (see page 2)
- Fundamental to 40 MHz
- Tape and Reel (1,000 pcs. STD)

OPTIONS

- Tolerances to 10 PPM
- Stabilities to 5 PPM
- Temperatures to -55ºC ~ +125ºC
- 3.2mm Height Max (HC49SSDLF)

• PART NUMBER Learn More - Internet Required

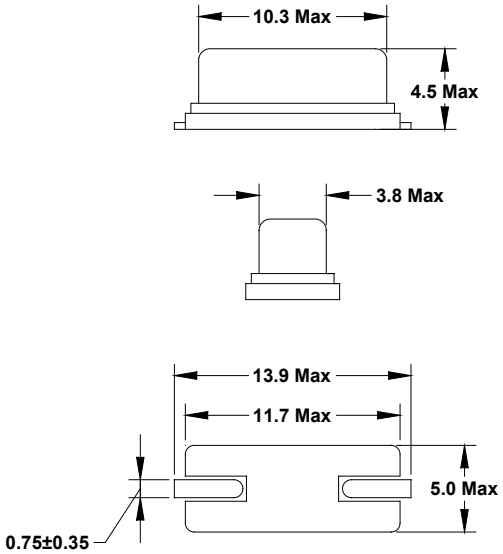
Part Number	Model Number	Frequency Range (MHz)
278LF-Frequency-xxxxx	HC49SDLF	3.200 ~ 80.000

• STANDARD SPECIFICATIONS[1]

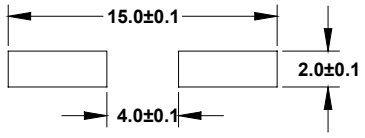
PARAMETERS	MAX (unless otherwise noted)
Frequency Range	3.200 ~ 80.000 MHz
Frequency Tolerance @ 25ºC	±50 PPM [1,3]
Frequency Stability, ref @ 25ºC	±50 PPM [1]
Temperature Range Operating (TOPR) Storage (TSTG)	 -20ºC ~ +70ºC [2] -40ºC ~ +125ºC
Shunt Capacitance (Co)	7pF
Load Capacitance (CL)	10 pF ~ Series (Customer Specified)
Drive Level	100uW
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.



Recommended HC49SD Solder Pad Layout



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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• FOX STANDARD SPECIFICATIONS	
PARAMETER	HC49SDLF
Frequency Tolerance @ 25°C	±30PPM
Frequency Stability	±50PPM
Operating Temperature Range	-20°C ~ +70°C

All specifications subject to change without notice.

• HC49SDLF Standard Crystals

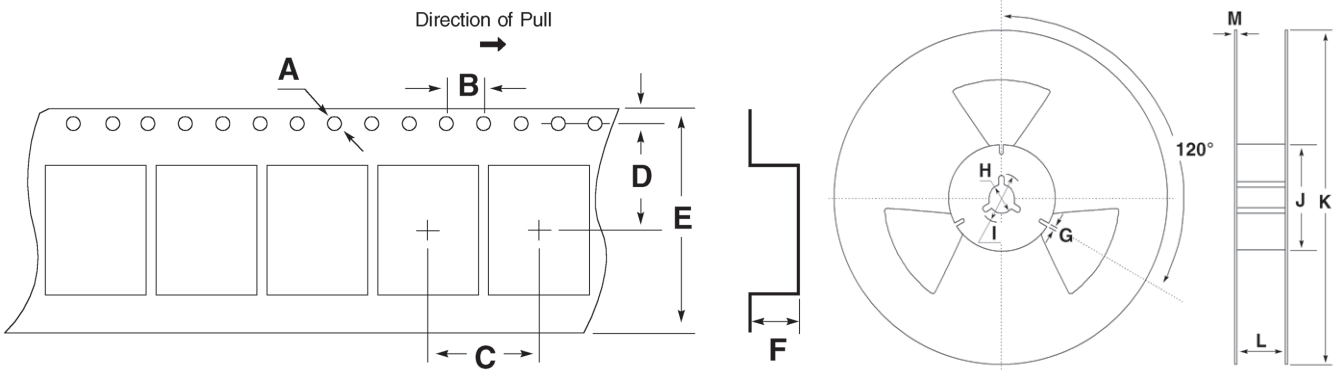
Frequency	CL	HC49SDLF Part Number	ESR Ω Max
3.579545	18pF	FOXSDLF/036S	200
3.686400	20pF	FOXSDLF/0368-20	200
4.000000	20pF	FOXSDLF/040	150
4.194304	12pF	FOXSDLF/041	150
4.915200	20pF	FOXSDLF/049-20	150
6.000000	20pF	FOXSDLF/060-20	120
7.372800	20pF	FOXSDLF/073-20	80
8.000000	20pF	FOXSDLF/080-20	80
8.192000	20pF	FOXSDLF/081-20	80
10.000000	20pF	FOXSDLF/100-20	60
11.059200	20pF	FOXSDLF/115-20	60
12.000000	20pF	FOXSDLF/120-20	60
12.288000	20pF	FOXSDLF/128-20	60
14.318180	20pF	FOXSDLF/143-20	40
14.745600	20pF	FOXSDLF/147-20	40
16.000000	20pF	FOXSDLF/160-20	40
20.000000	20pF	FOXSDLF/200-20	30
22.118400	20pF	FOXSDLF/221-20	30
24.000000	20pF	FOXSDLF/240F-20 (Fundamental)	30
24.576000	20pF	FOXSDLF/245F-20 (Fundamental)	30
25.000000	20pF	FOXSDLF/250F-20 (Fundamental)	30

• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
HC49SDLF	∅1.5	4.0	12.0	11.5	24.0	4.8	1,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
HC49SDLF	2.0	∅13	∅21	∅80	∅330	25.5	2.0



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