

Resistance Weld Thru-Hole Crystal



Model: HC49SLF

RoHS Compliant / Pb Free

Rev. 3/30/2015

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Sample®

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 -55°C ~ +125°C
- 2.5mm Height Max (HC49SSLF)

• PART NUMBER

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

• STANDARD SPECIFICATIONS¹

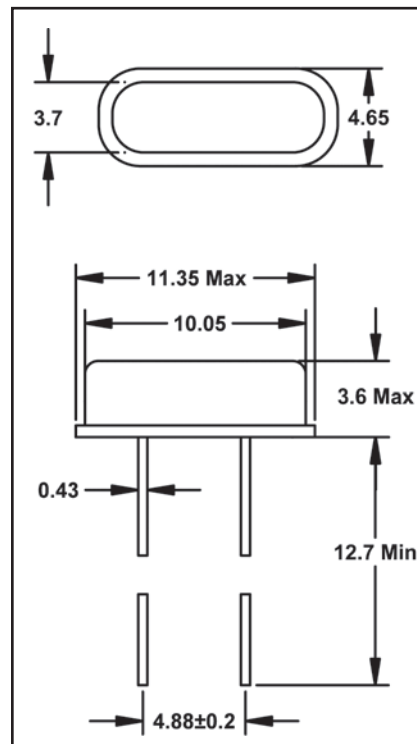
| PARAMETERS | MAX (unless otherwise noted) |
|----------------------------------|--|
| Frequency Range | 3.200 ~ 80.000 MHz |
| Frequency Tolerance @ 25°C | ±50 PPM ^{1,3} |
| Frequency Stability, ref @ 25°C | ±50 PPM ¹ |
| Temperature Range | |
| Operating (TOPR) | -20°C ~ +70°C ² |
| Storage (TSTG) | -40°C ~ +125°C |
| 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 | 260°C / 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 -55°C ~ +125°C 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 measurements. 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 |

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