



# SMD Resistance Weld Crystal

Model: HC49SSDLF

RoHS Compliant / Pb Free

Rev. 6/2/2009

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Need a Sample®

## FEATURES

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

## OPTIONS

- Tolerances to < 10 PPM
- Stabilities to < 5 PPM
- Temperatures to -40°C ~ +105°C

### • PART NUMBER [Learn More](#) - Internet Required

| Part Number           | Model Number | Frequency Range (MHz) |
|-----------------------|--------------|-----------------------|
| 280LF-Frequency-xxxxx | HC49SSDLF    | 6.000 ~ 70.000        |

### • STANDARD SPECIFICATIONS<sup>1</sup>

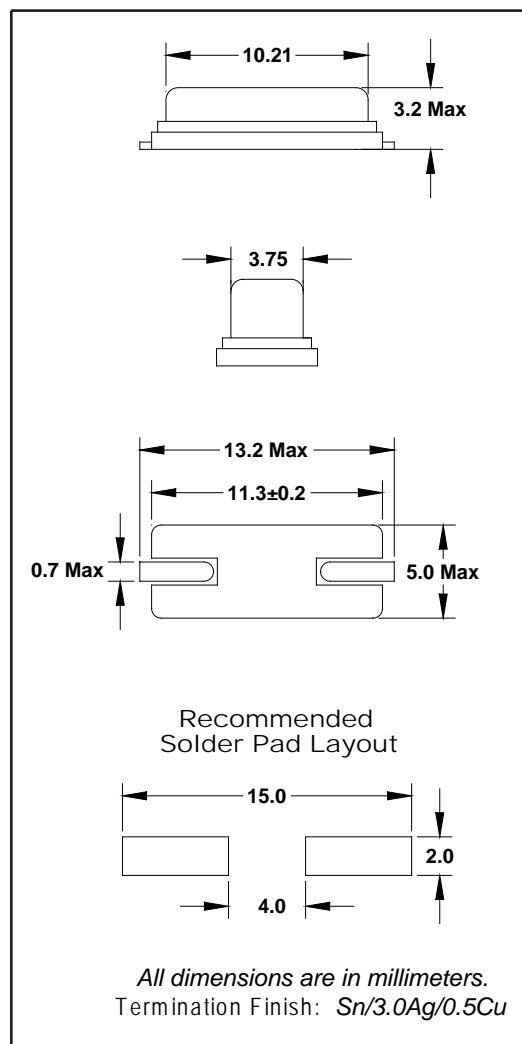
| PARAMETERS   | MAX (unless otherwise noted)           |
|--|--|
| Frequency Range  | 6.000 ~ 70.000 MHz                     |
| Frequency Tolerance: @ 25°C                                  | ±50 PPM <sup>1,2</sup>                 |
| Frequency Stability, ref @ 25°C<br>Over Operating Temp Range | ±50 PPM <sup>1</sup>                   |
| Temperature Range  |  |
| Operating (TOPR)   | -20°C ~ +70°C <sup>1</sup>             |
| Storage (TSTG)   | -40°C ~ +85°C                          |
| Shunt Capacitance (Co)                                       | 7pF                                    |
| Load Capacitance (CL)  | 10 pF ~ Series<br>(Customer Specified) |
| Drive Level  | 0.5 mW                                 |
| Aging per year   | ±5 PPM                                 |
| Maximum Soldering Temp / Time                                | 260°C / 10 Seconds                     |
| Moisture Sensitivity Level (MSL)                             | 1                                      |

<sup>1</sup> Other tolerances, stabilities & operating temperature ranges available. Consult Fox Customer Service for specific requirements.

<sup>2</sup> Crystal has a ±30ppm tolerance specification for all standard part numbers. These part numbers are listed in the Fox catalog on the Standard Crystal table.

All specifications subject to change without notice.

| Frequency Range (MHz) | Operating Mode | Max ESR Ω |
|-----------------------|----------------|-----------|
| 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       |



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| • TAPE SPECIFICATIONS (millimeters) |      |     |      |      |      |     |          |
|-------------------------------------|------|-----|------|------|------|-----|----------|
| MODEL                               | A    | B   | C    | D    | E    | F   | Reel QTY |
| HC49SSDLF                           | ∅1.5 | 4.0 | 12.0 | 11.5 | 24.0 | 3.5 | 1,000    |

| • REEL SPECIFICATIONS (millimeters) |     |     |     |     |      |      |     |
|-------------------------------------|-----|-----|-----|-----|------|------|-----|
| MODEL                               | G   | H   | I   | J   | K    | L    | M   |
| HC49SSDLF                           | 2.0 | ∅13 | ∅21 | ∅80 | ∅330 | 25.5 | 2.0 |

