

Resistance Weld SMD Crystal



Model: HC49SDLF

RoHS Compliant / Pb Free

Rev. 6/2/2009

Page 1 of 2

http://www.foxonline.com/need_a_sample.htm

Need a
Sample®

FEATURES

- Stock Standard (see page 2)
- Fundamental to 40 MHz
- Tape and Reel (1,000 pcs. STD)
- Tolerances to 10 PPM
- Stabilities to 5 PPM
- Temperatures to -40°C ~ +105°C
- 3.2mm Height Max (HC49SSDLF)

OPTIONS

| • PART NUMBER Learn More - Internet Required | | |
|--|--------------|-----------------------|
| Part Number | Model Number | Frequency Range (MHz) |
| 278LF-Frequency-xxxxx | HC49SDLF | 3.200 ~ 70.000 |

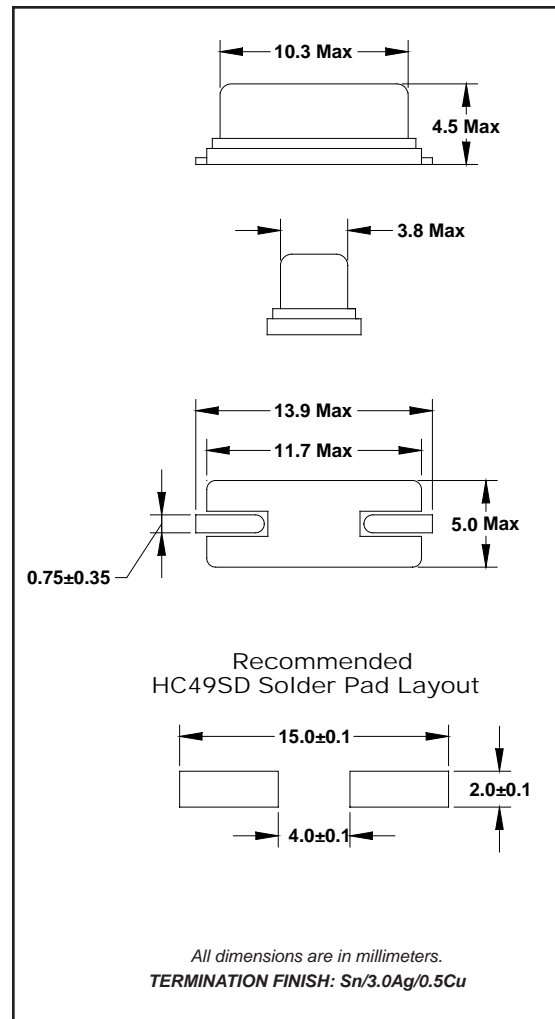
| • STANDARD SPECIFICATIONS ¹ | |
|--|--|
| PARAMETERS | MAX (unless otherwise noted) |
| Frequency Range | 3.200 ~ 70.000 MHz |
| Frequency Tolerance @ 25°C | ±50 PPM ^{1,2} |
| Frequency Stability, ref @ 25°C Over Operating Temp Range | ±50 PPM ¹ |
| Temperature Range | |
| Operating (TOPR) | -20°C ~ +70°C ¹ |
| Storage (TSTG) | -40°C ~ +85°C |
| Shunt Capacitance (Co) | 7pF |
| Load Capacitance (CL) | 10 pF ~ Series (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 |

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

² Crystal has a ±30ppm tolerance specification for all standard part numbers. These part numbers are listed on page 2 of this datasheet.

All specifications subject to change without notice.

| 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 |



Resistance Weld SMD Crystal



Model: HC49SDLF

RoHS Compliant / Pb Free

Rev. 6/2/2009

Page 2 of 2

http://www.foxonline.com/need_a_sample.htm

Need a
Sample®

| • 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 | Ø1.5 | 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 | Ø13 | Ø21 | Ø80 | Ø330 | 25.5 | 2.0 |

