

Thru-Hole Crystal

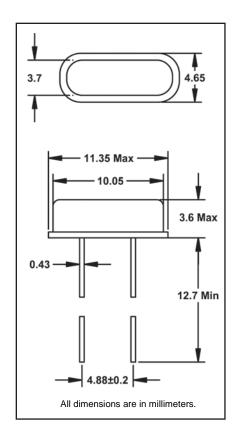
(former HC49SLF) **DATASHEET**

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- Tolerances down to 10 PPM
- Stabilities down to 15 PPM
- Operating Temperature Range up to -55°C ~ +125°C

| • C4ST STANDARD SPECIF | ICATIONS | |
|----------------------------------|------------------------------|--|
| PARAMETERS | MAX (unless otherwise noted) | |
| Frequency Range | 3.200 ~ 80.000 MHz | |
| Frequency Tolerance @ 25°C | (See options on page 2) | |
| Frequency Stability, ref @ 25°C | (See options below) | |
| Temperature Range | | |
| Operating (TOPR) | (See options below) | |
| Storage (TSTG) | -40°C ~ +125°C | |
| Shunt Capacitance (Co) | 7pF | |
| Load Capacitance (CL) | (See options on page 2) | |
| 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 | |
| Seam Method | Resistance Weld | |
| Lead (Pb) Free | Yes | |
| RoHS Compliant | Yes | |

| | Frequency Range (MHz) | | |
|--------------------|--------------------------|-------------|-----|
| | 3.200 ~ 3.500 | Fundamental | 300 |
| | 3.500001 ~ 4.000 | Fundamental | 200 |
| | 4.000001 ~ 5.000 | Fundamental | 150 |
| 5.000001 ~ 6.000 | | Fundamental | 120 |
| | 6.000001 ~ 7.000 | Fundamental | 100 |
| | 7.000001 ~ 9.000 | Fundamental | 80 |
| | 9.000001 ~ 13.000 | Fundamental | 60 |
| 13.000001 ~ 20.000 | | Fundamental | 40 |
| 20.000001 ~ 40.000 | | Fundamental | 30 |
| | 27.000000 ~ 70.000 | 3rd OT | 100 |
| | 70.000001 ~ 80.000 | 3rd OT | 70 |

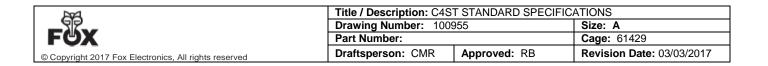


Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary. All specifications subject to change without notice.

Available Operating Temperatures and Stabilities*

| Operating Temperature | ±15 PPM | ±20 PPM | ±25 PPM | ±30 PPM | ±50 PPM | ±100 PPM |
|-----------------------|---------|---------|---------|---------|---------|----------|
| -10°C to +60°C | Δ | 0 | 0 | 0 | 0 | 0 |
| -20°C to +70°C | Х | X | Δ | 0 | 0 | 0 |
| -40°C to +85°C | Χ | X | Δ | 0 | 0 | 0 |
| -40°C to +105°C | Χ | X | Χ | Χ | 0 | 0 |
| -55°C to +125°C | X | X | X | X | Δ | 0 |

Key: O=Available, X=Not Available, Δ =Consult Fox Technical Support *Does not imply a stocked part.





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C4ST (former HC49SLF) DATASHEET

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Available Options & Part Identification for Thru-Hole Crystal C4ST* F C4ST C B M F 16.000

| F | C4ST | С | В | M | F | 16.000 |
|-----|------------------------|---|--|---|---|--------------------|
| FOX | Model <u>Number</u> | Tolerance B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm | Stability A=100ppm B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm | Load Capacitance A=Series E=10pF G=12pF K=16pF L=18pF M=20pF N=22pF P=27pF Q=30pF R=32pF S=33pF | Operating Temperature D=-10 to +60C F=-20 to +70C M=-40 to +85C P=-40 to +105C T=-55 to +125C | Frequency (MHz) |

^{*}Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

| C4ST (former 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 |

| ASA. | Title / Description: C4ST STANDARD SPECIFICATIONS | | | |
|---|---|--------------|---------------------------|--|
| _3/2 | Drawing Number: 1009 | Size: A | | |
| FÖX | Part Number: | | Cage: 61429 | |
| © Copyright 2017 Fox Electronics, All rights reserved | Draftsperson: CMR | Approved: RB | Revision Date: 03/03/2017 | |



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| FOX | |

| Title / Description: C4ST STANDARD SPECIFICATIONS | | | |
|---|---------------------|---------------------------|--|
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