

Thru-Hole Crystal

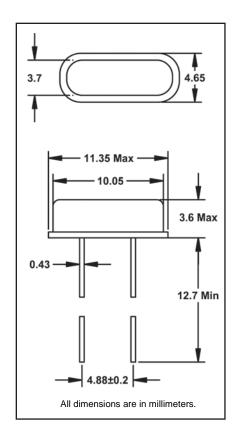
C4ST (former HC49SLF) DATASHEET

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- Tolerances down to 10 PPM
- Stabilities down to 5 PPM
- Operating Temperature Range 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)	Operating Mode	Max ESR Ω
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	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-10°C to +60°C	0	0	0	0	0	0	0	0
-20°C to +70°C	Δ	0	0	0	0	0	0	0
-40°C to +85°C	Χ	Х	0	0	0	0	0	0
-40°C to +105°C	X	X	X	X	X	Δ	0	0
-40°C to +125°C	X	X	X	Χ	X	Χ	Δ	
-55°C to +125°C	X	X	X	X	X	X	Δ	0

Key: O=Available, X=Not Available, Δ=Consult Fox Technical Support

*Does not imply a stocked part.

24	Title / Description: C4ST STANDARD SPECIFICATIONS			
_3/2	Drawing Number: 1009	Size: A		
FÖX	Part Number:		Cage: 61429	
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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
<u>FOX</u>	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 H=10ppm L=5ppm	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 I=-40 to +125C 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	

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For datasheet type definitions and a glossary of common terms, visit http://www.foxonline.com/tgcrystals.html .

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