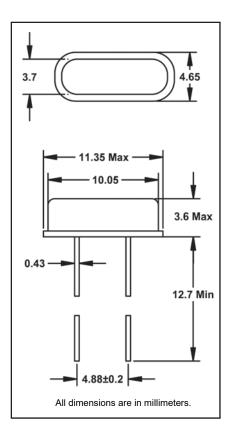


- Tolerances down to ±10 PPM
- Stabilities down to ±5 PPM
- Operating Temperature Range to -55°C ~ +125°C

C4ST STANDARD SPECIFICATIONS					
PARAMETERS	<b>MAX</b> (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/Ag3.0/Cu0.5				
Seam Method	Resistance Weld				
Lead (Pb) Free	Yes				
RoHS/REACH Compliant	Yes				

Frequency Range (MHz)	Operating Mode	Max ESR $\Omega$	
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	
24.000 ~ 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	Х	Х	0	0	0	0	0	0
-40°C to +105°C	Х	Х	Х	Х	Х	Δ	0	0
-40°C to +125°C	Х	Х	Х	Х	Х	Х	Δ	0
-55°C to +125°C	X	X	Х	Х	Х	Х	Δ	0

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

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	Drawing Number: C4S	Size: A		
FÖX	Part Number:	Cage: 61429		
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A	Available Options & Part Identification for Thru-Hole Crystal C4ST <sup>1</sup> <u>F C4ST C B M F 16.0</u>						
F	C4ST	С	В	Μ	F	16.0	
FOX	Model <u>Number</u>	$\frac{\text{Tolerance}}{\text{B} = \pm 50 \text{ppm}}$ $\frac{\text{C} = \pm 30 \text{ppm}}{\text{D} = \pm 25 \text{ppm}}$ $\frac{\text{E} = \pm 20 \text{ppm}}{\text{F} = \pm 15 \text{ppm}}$ $\text{H} = \pm 10 \text{ppm}$	$\frac{\text{Stability}}{\text{B} = \pm 100 \text{ppm}}$ $\frac{\text{B} = \pm 50 \text{ppm}}{\text{C} = \pm 30 \text{ppm}}$ $\frac{\text{C} = \pm 25 \text{ppm}}{\text{E} = \pm 20 \text{ppm}}$ $\frac{\text{F} = \pm 15 \text{ppm}}{\text{H} = \pm 10 \text{ppm}}$ $\frac{\text{L} = \pm 5 \text{ppm}}{\text{L} = \pm 5 \text{ppm}}$	Load <u>Capacitance<sup>2</sup></u> A = Series E = 10pF G = 12pF K = 16pF L = 18pF <b>M = 20pF</b>	Operating <u>Temperature</u> D =-10 to +60°C F =-20 to +70°C M =-40 to +85°C P =-40 to +105°C I =-40 to +125°C T =-55 to +125°C	Frequency <u>(MHz)</u>	

<sup>1</sup>Not all frequency, tolerance, stability, load, and operating temperature combinations may be available.

<sup>2</sup> Listed load capacitances represent the most commonly used. Other load capacitances are available.

Contact Fox Technical Support for assistance



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A A	Title / Description: C4ST STANDARD SPECIFICATIONS			
	Drawing Number: C4S	Size: A		
FÖX	Part Number:	Cage: 61429		
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