

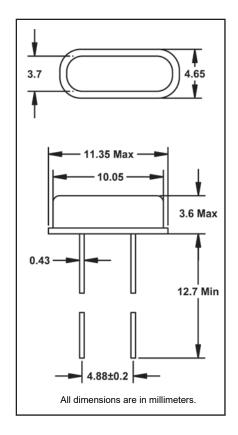
Thru-Hole Crystal

DATASHEET

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

C4ST STANDARD SPECIFICATIONS					
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/Ag3.0/Cu0.5				
Seam Method	Resistance Weld				
Lead (Pb) Free	Yes				
RoHS/REACH 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	
24.000 ~ 70.000	3rd OT	100	
70.000001 ~ 80.000	3rd OT	70	



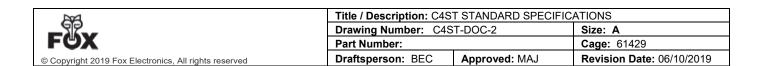
Note: Dimensional drawing is for reference to critical specifications defined by size measurements. Certain non-critical visual attributes, such as side castellations, etc. may vary. All specifications subject to change without notice.

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	Χ	X	0	0	0	0	0	0
-40°C to +105°C	Χ	X	Χ	X	X	Δ	0	0
-40°C to +125°C	X	X	X	X	Χ	Χ	Δ	0
-55°C to +125°C	X	X	X	X	X	X	Δ	0

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

*Does not imply a stocked part.





Thru-Hole Crystal

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Available Options & Part Identification for Thru-Hole Crystal C4ST¹ F C4ST C B M F 16.0

F	C4ST	C	В	M	F	16.0
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 H = ±10ppm L = ±5ppm	Load Capacitance ² A = Series E = 10pF G = 12pF K = 16pF L = 18pF M = 20pF	Operating Temperature 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 (MHz)

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



Corporate Headquarters

5570 Enterprise Parkway Fort Myers, FL 33905 http://www.FOXONLINE.com Sales

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

224	Title / Description: C4ST STANDARD SPECIFICATIONS			
FÖX	Drawing Number: C4S	Size: A		
FOX	Part Number:	Cage: 61429		
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² Listed load capacitances represent the most commonly used. Other load capacitances are available. Contact Fox Technical Support for assistance