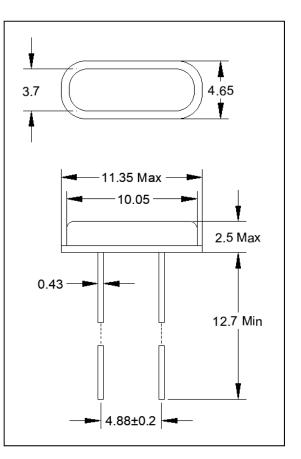


- Tolerances down to ±10 PPM
- Stabilities down to ±5 PPM
- Operating Temperature Range to -55°C ~ +125°C

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				
Seal Method	Resistance Weld				
Lead (Pb) Free	Yes				
RoHS/REACH Compliant	Yes				

Frequency Range (MHz)	Operating Mode	Max ESR Ω	
4.000 ~ 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 noncritical visual attributes, such as side castellations, etc. may vary. All specifications subject to change without notice. All dimensions are in mm.

•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	Х	Х	Х	X	Х	Х	Δ	0

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

22	Title / Description: C9S	Title / Description: C9ST STANDARD SPECIFICATIONS			
	Drawing Number: C95	Drawing Number: C9ST-DOC-1			
FÖX	Part Number:	Part Number:			
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Available Options & Part Identification for Thru-Hole Crystal C9ST ¹ <u>F C9ST C B M F 16.0</u>						
F	C9ST	С	В	Μ	F	16.0
<u>FOX</u>	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>Capacitance²</u> A = Series E = 10pF G = 12pF K = 16pF L = 18pF M = 20pF	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>

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

² Listed load capacitances represent the most commonly used. Other load capacitances are available.

Contact Fox Technical Support for assistance



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

A A	Title / Description: C9ST STANDARD SPECIFICATIONS			
	Drawing Number: C9S	Size: A		
FÖX	Part Number:	Cage: 61429		
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