

Resistance Weld Thru-Hole Crystal

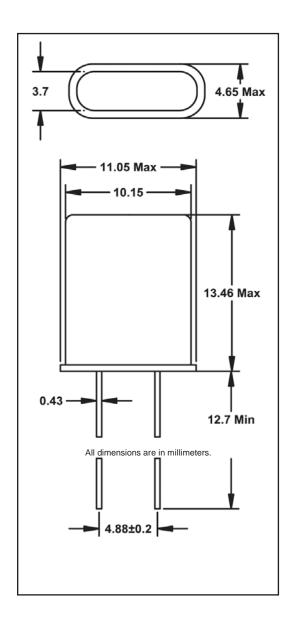
Product End of Life (EOL) See PCN539.pdf

C4UT (Former HC49ULF) DATASHEET

- Tolerances down to 10 PPM
- Stabilities down to 10 PPM
- Temperature Ranges as wide as -40°C to +85°C

C4UT STANDARD SPECIFICATIONS				
PARAMETERS	MAX (unless otherwise noted)			
Frequency Range	3.579545 ~ 180.000 MHz			
Frequency Tolerance @ 25°C	(See options on page 2)			
Frequency Stability, ref @ 25°C				
Over Operating Temp Range	(See options below)			
Temperature Range				
Operating (T _{OPR})	(See options below) -40° C ~ $+85^{\circ}$ C			
Storage (T _{STG})				
Shunt Capacitance (C _o)	7.0 pF			
Load Capacitance (C _L)	(See options on page 2)			
Drive Level	1.0 mW			
Aging per year	±5 PPM			
Termination Finish	Sn/3.0Ag/0.5Cu			
Seal Method	Resistance Weld			
Lead (Pb) Free	Yes			
RoHS Compliant	Yes			

Frequency Range (MHz)	Operating Mode	Max ESR Ω
3.579545 ~ 3.700	Fundamental	120
>3.700 ~ 4.200	Fundamental	100
>4.200 ~ 4.900	Fundamental	70
>4.900 ~ 5.000	Fundamental	55
>5.000 ~ 6.000	Fundamental	50
>6.000 ~ 8.000	Fundamental	40
>8.000 ~ 10.000	Fundamental	35
>10.000 ~ 12.500	Fundamental	30
>12.500 ~ 16.000	Fundamental	25
>16.000 ~ 30.000	Fundamental	20
23.000 ~ 96.000	3rd OT	40
60.000 ~ 140.000	5th OT	80
110.000 ~ 180.000	7th OT	120



•Available Operating Temperatures and Stabilities*

Operating Temperature	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM
-10°C to +60°C	0	0	0	0	0	0
-20°C to +70°C	0	0	0	0	0	0
-40°C to +85°C	Х	0	0	0	0	0

Key: O=Available, X=Not Available *Does not imply a stocked part.

85	Title / Description: C4UT	Title / Description: C4UT STANDARD SPECIFICATIONS			
FÖX	Drawing Number: 10115	Drawing Number: 101159			
	Part Number:		Cage: 61429		
© Copyright 2017 Fox Electronics All rights reserved	Draftsperson: CMR	Approved: BEC	Revision Date: 09/05/2017		



Resistance Weld Thru-Hole Crystal



Available Options & Part Identification for Thru-Hole Crystal C4UT* F C4UT C B M F 16.0

F	C4UT	С	В	M	F	16.0
FOX	Model <u>Number</u>	Tolerance B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Stability B=50ppm C=30ppm D=25ppm E=20ppm F=15ppm H=10ppm	Load Capacitance A=Series E=10pF G=12pF U=13pF L=18pF M=20pF N=22pF Q=30pF R=32pF S=33pF	Operating Temperature D=-10 to +60C F=-20 to +70C M=-40 to +85C	Frequency (MHz)

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

C4UT (former HC49ULF) Standard Crystals						
Part Number	Frequency	Tolerance	Stability	Temp Range	CL	
FOXLF036S	3.579545	± 30 ppm	± 50 ppm	-20 to +70 C	18pF	
FOXLF0368S	3.686400	± 30 ppm	± 50 ppm	-20 to +70 C	Series	
FOXLF0368-20	3.686400	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF040A	4.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series	
FOXLF040	4.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF080-20	8.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF100-20	10.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF115	11.059200	± 30 ppm	± 50 ppm	-20 to +70 C	Series	
FOXLF115-20	11.059200	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF120	12.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series	
FOXLF120-20	12.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF160	16.000000	± 30 ppm	± 50 ppm	-20 to +70 C	Series	
FOXLF160-20	16.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF200-20	20.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	
FOXLF250F-20	25.000000	± 30 ppm	± 50 ppm	-20 to +70 C	20pF	

88	Title / Description: C4UT STANDARD SPECIFICATIONS			
FÖX	Drawing Number: 10115	Drawing Number: 101159		
	Part Number:	Part Number:		
© Copyright 2017 Fox Electronics All rights reserved	Draftsperson: CMR	Approved: BEC	Revision Date: 09/05/2017	



Resistance Weld Thru-Hole Crystal





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

Sales 1-888-GET-2-FOX (1-888-438-2369) or 1-239-693-0099

http://www.FOXONLINE.com/repdisty

Tech Support http://www.FOXONLINE.com/email

PRODUCT USE: Fox Electronics reserves the right to modify the products and/or specifications described herein at any time and at Fox Electronics' sole discretion. All information in this document, including descriptions of product features and performance, is subject to change without notice. Performance specifications and the operating parameters of the described products are determined in the independent state and are not guaranteed to perform the same way when installed in customer products. The information contained herein is provided without representation or warranty of any kind, whether express or implied, including, but not limited to, the suitability of Fox Electronics' products for any particular purpose, an implied warranty of merchantability, or non-infringement of the intellectual property rights of others. This document is presented only as a guide and does not convey any license under intellectual property rights of Fox Electronics or any third parties.

Fox Electronics' products are not intended for use in applications involving extreme environmental conditions or in life support systems or similar devices where the failure or malfunction of a Fox Electronics product can be reasonably expected to significantly affect the health or safety of users. Anyone using a Fox Electronics product in such a manner does so at their own risk, absent an express, written agreement by Fox Electronics

Fox Electronics and the Fox logo are registered trademarks of Fox Electronics. Product specification is subject to change without notice. Other trademarks and service marks used herein, including protected names, logos and designs, are the property of Fox Electronics or their respective third party owners.

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

	86	Title / Description: C4UT STANDARD SPECIFICATIONS			
FÖX	Drawing Number: 101159	Size: A			
	Part Number:		Cage: 61429		
	© Copyright 2017 Fox Electronics All rights reserved	Draftsperson: CMR	Approved: BEC	Revision Date: 09/05/2017	