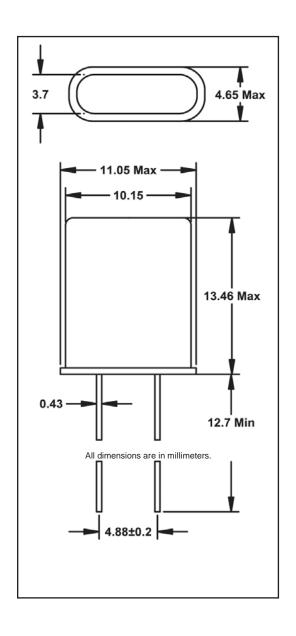


# Resistance Weld Thru-Hole Crystal

- 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 <sub>OPR</sub> )	(See options below)			
Storage (T <sub>STG</sub> )	-40°C ~ +85°C 7.0 pF			
Shunt Capacitance (C <sub>o</sub> )				
Load Capacitance (C <sub>L</sub> )	(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	X	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		
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# 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)

<sup>\*</sup>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:		Cage: 61429	
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### Resistance Weld Thru-Hole Crystal





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

	88	Title / Description: C4UT STANDARD SPECIFICATIONS			
FÖX	Drawing Number: 101159	Size: A			
	FOX	Part Number:	Cage: 61429		
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