FC4ST (Former HC49SLF) 11.35mm x 4.65mm Thru-Hole Crystal

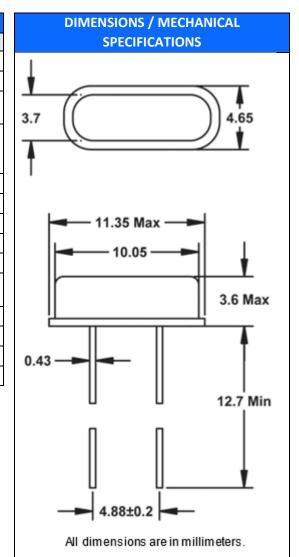


Features

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

STANDARD SPECIFICATIONS						
PARAMETERS	MAX (Unless otherwise noted)					
Frequency Range	3.200 ~ 80.000 MHz					
Frequency Tolerance @ 25°C	(See options below)					
Frequency Stability, ref 25°C						
Over Operating Temp Range	(See options below)					
Temperature Range						
Operating (T _{OPR})	(See options below)					
Storage (T _{STG})	-40°C ~ +125°C					
Shunt Capacitance (C ₀)	7 pF					
Load Capacitance (C∟)	(See options below)					
Drive Level	0.5mW (100μW Typical)					
Aging per year (@ 25°C)	±3 PPM					
Maximum Soldering Temp / Time	260°C / 10 Seconds					
Moisture Sensitivity Level (MSL) per	1					
J-STD-033						
Termination Finish	Sn/Ag3.0/Cu0.5					
Seal Method	Resistance Weld					
Lead (Pb) Free	Yes					
RoHS Compliant	Yes					

Frequency Range (MHz)	Operating Mode	$\textbf{Max ESR} \Omega$	
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. FC4ST (Former HC49SLF)



Thru-Hole Crystal

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	Х	Х	Х	Δ	0
Key: O = Available, X = Not Available, Δ = Consult Fox Technical Support *Does not imply a stocked part.								

	Available Options & Part Identification for Thru-Hole Crystal C4ST ¹ Sample PN: <u>FC4STCBMF16.0</u>								
F	C4ST	С	В	М	F	16.0			
<u>Fox</u>	Model	Tolerance	<u>Stability</u>	<u>Load</u>	Operating	<u>Frequency</u>	Values Added		
	Number	B = ±50ppm	A = ±100 ppm	Capacitance ²	Temperature	<u>(MHz)</u>	Options		
		C = ±30ppm	B = ±50 ppm	A = Series	D = -10 to +60°C		Blank = Bulk		
		D = ±25ppm	C = ±30 ppm	E = 10pF	F = -20 to +70°C				
		$E = \pm 20 ppm$	D = ±25 ppm	G = 12PF	M = -40 to +85°C				
		F = ±15ppm	E = ±20 ppm	K = 16pF	P = -40 to +105°C				
		$H = \pm 10 ppm$	F = ±15 ppm	L = 18pF	l = -40 to +125°C				
			H = ±10 ppm L = ±5 ppm	M = 20pF	T = -55 to +125°C				

1 Not 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 us for assistance

Reliability Test Conditions
Please contact Abracon Quality Assurance department

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Authorized Distributor

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ABRACON:

 FC4STCBMF3.6864
 FC4STBAMM7.3728
 FC4STCBAF11.0592
 FC4STCBAF4.0
 FC4STCBLF3.579545

 FC4STCBMF10.0
 FC4STCBMF11.0
 FC4STCBMF12.0
 FC4STCBMF12.288
 FC4STCBMF16.0
 FC4STCBMF18.432

 FC4STCBMF20.0
 FC4STCBMF4.0
 FC4STCBMF7.3728
 FC4STCBMF8.0
 FC4STCBMF9.8304