

# FC4ST

(Former HC49SLF)

11.35mm x 4.65mm

Thru-Hole Crystal

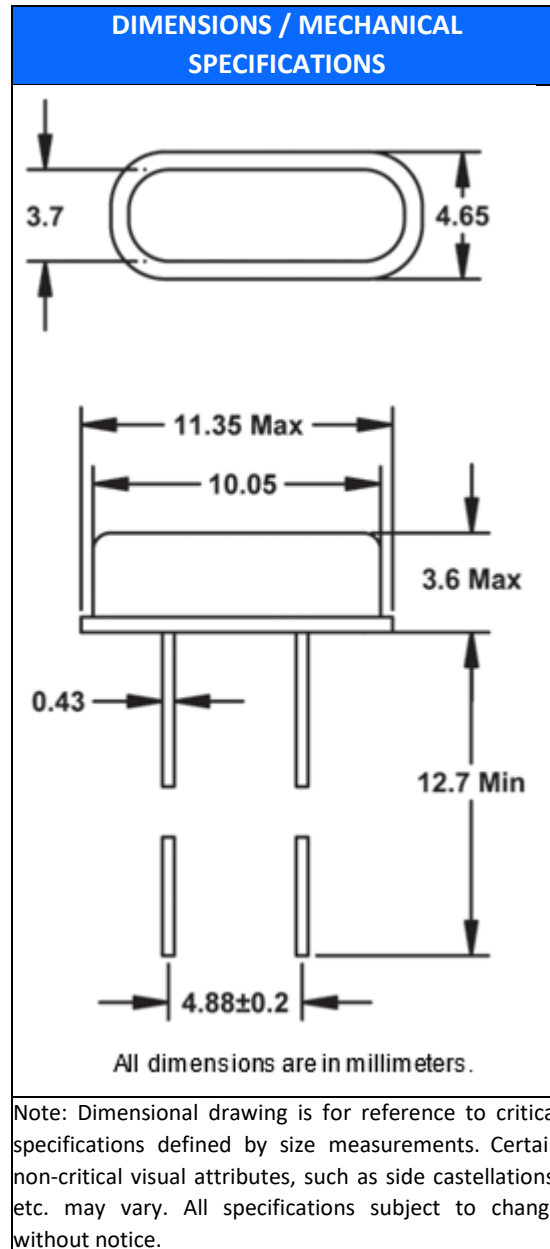


## Features

- Tolerances down to  $\pm 10$  PPM
- Stabilities down to  $\pm 5$  PPM
- Operating Temperature Range to  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

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 ( $T_{STG}$ )	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Shunt Capacitance ( $C_0$ )	7 pF
Load Capacitance ( $C_L$ )	(See options below)
Drive Level	0.5mW (100 $\mu$ W Typical)
Aging per year (@ 25°C)	$\pm 3$ PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL) per J-STD-033	1
Termination Finish	Sn/Ag3.0/Cu0.5
Seal Method	Resistance Weld
Lead (Pb) Free	Yes
RoHS Compliant	Yes

Frequency Range (MHz)	Operating Mode	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





### 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	O	O	O	O	O	O	O	O
-20°C to +70°C	Δ	O	O	O	O	O	O	O
-40°C to +85°C	X	X	O	O	O	O	O	O
-40°C to +105°C	X	X	X	X	X	Δ	O	O
-40°C to +125°C	X	X	X	X	X	X	Δ	O
-55°C to +125°C	X	X	X	X	X	X	Δ	O

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<sup>1</sup>

Sample PN: **FC4STCBMF16.0**

F	C4ST	C	B	M	F	16.0	
<b>Fox</b>	<b>Model Number</b>	<b>Tolerance</b> B = ±50ppm <b>C = ±30ppm</b> D = ±25ppm E = ±20ppm F = ±15ppm H = ±10ppm	<b>Stability</b> A = ±100 ppm <b>B = ±50 ppm</b> C = ±30 ppm D = ±25 ppm E = ±20 ppm F = ±15 ppm H = ±10 ppm L = ±5 ppm	<b>Load Capacitance<sup>2</sup></b> A = Series E = 10pF G = 12PF K = 16pF L = 18pF <b>M = 20pF</b>	<b>Operating Temperature</b> D = -10 to +60°C <b>F = -20 to +70°C</b> M = -40 to +85°C P = -40 to +105°C I = -40 to +125°C T = -55 to +125°C	<b>Frequency (MHz)</b>	<b>Values Added Options</b> Blank = Bulk

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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