

C80T

(Former HC80U)

7.9mm x 3.2mm

Resistance Weld Thru-Hole Crystal

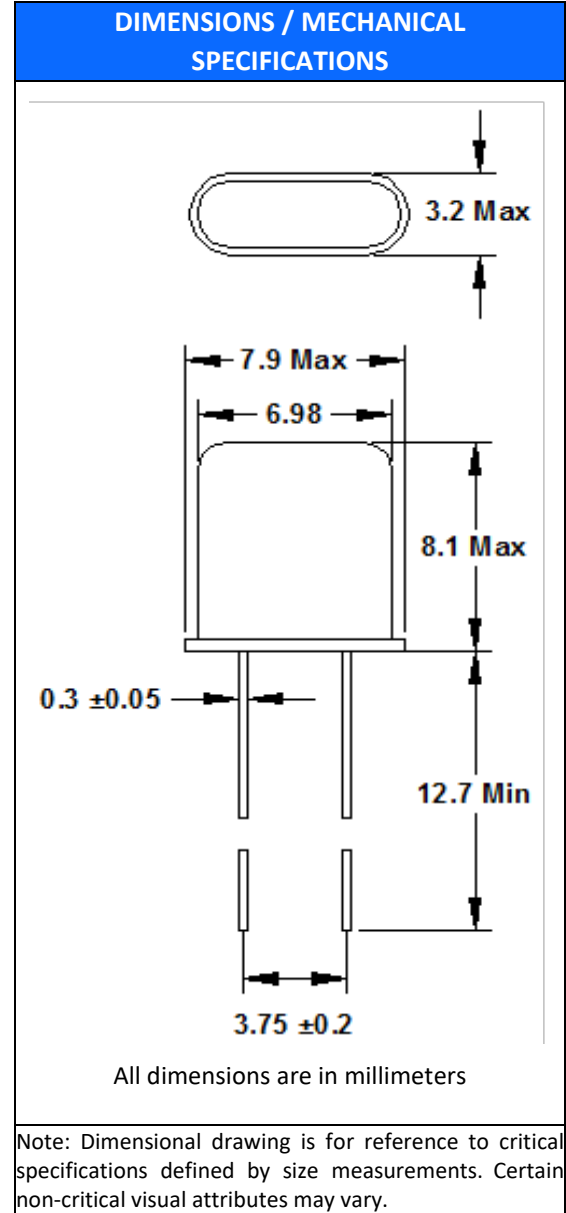


Features

- Tolerances down to ± 10 PPM
- Stabilities down to ± 5 PPM
- Operating Temperature Range to $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range	3.579545 ~ 200.0 MHz
Frequency Tolerance @ 25°C	(See options below)
Frequency Stability, ref 25°C	(See options below)
Temperature Range	
Operating (T_{OPR})	(See options below)
Storage (T_{STG})	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Shunt Capacitance (C_0)	7 pF
Load Capacitance (C_L)	(See options below)
Drive Level	1.0 mW
Aging per year (@ 25°C)	± 3 PPM
Maximum Soldering Temp / Time	$260^{\circ}\text{C} / 10$ Seconds x 2
Moisture Sensitivity Level (MSL) per J-STD-033	1
Termination Finish	Sn96.5/Ag3/Cu0.5
Seal Method	Resistance Weld
Lead (Pb) Free	Yes
RoHS Compliant	Yes

Frequency Range (MHz)	Operating Mode	Max ESR Ω
3.579545 ~ 4.0	Fundamental	300
>4.0 ~ 5.0	Fundamental	250
>5.0 ~ 6.0	Fundamental	180
>6.0 ~ 7.0	Fundamental	120
>7.0 ~ 8.0	Fundamental	100
>8.0 ~ 10.0	Fundamental	90
>10.0 ~ 11.0	Fundamental	60
>11.0 ~ 50.0	Fundamental	40
25.0 ~ 123.0	3 rd OT	60
60.0 ~ 200.0	5 th OT	100





AVAILABLE OPERATING TEMPERATURES AND STABILITIES*								
Operating Temperature	±5 PPM	±10 PPM	±15 PPM	±20 PPM	±25 PPM	±30 PPM	±50 PPM	±100 PPM
-0°C to +50°C	O	O	O	O	O	O	O	O
-0°C to +70°C	O	O	O	O	O	O	O	O
-10°C to +60°C	O	O	O	O	O	O	O	O
-10°C to +70°C	O	O	O	O	O	O	O	O
-20°C to +70°C	O	O	O	O	O	O	O	O
-40°C to +85°C	X	X	O	O	O	O	O	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 C80T ¹							
Sample PN: <u>FC80TBAAM122.88</u>							
F	C80T	B	A	A	M	122.88	
<u>Fox</u>	<u>Model Number</u>	<u>Tolerance</u> A = 100 PPM B = 50 PPM C = 30 PPM D = 25 PPM E = 20 PPM F = 15 PPM H = 10 PPM	<u>Stability</u> A = 100 PPM B = 50 PPM C = 30 PPM D = 25 PPM E = 20 PPM F = 15 PPM H = 10 PPM L = 5 PPM	<u>Load Capacitance²</u> A = Series G = 12pF L = 18pF M = 20pF	<u>Operating Temperature</u> A = 0 to +50°C C = 0 to +70°C D = -10 to +60°C E = -10 to +70°C F = -20 to +70°C M = -40 to +85°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> 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