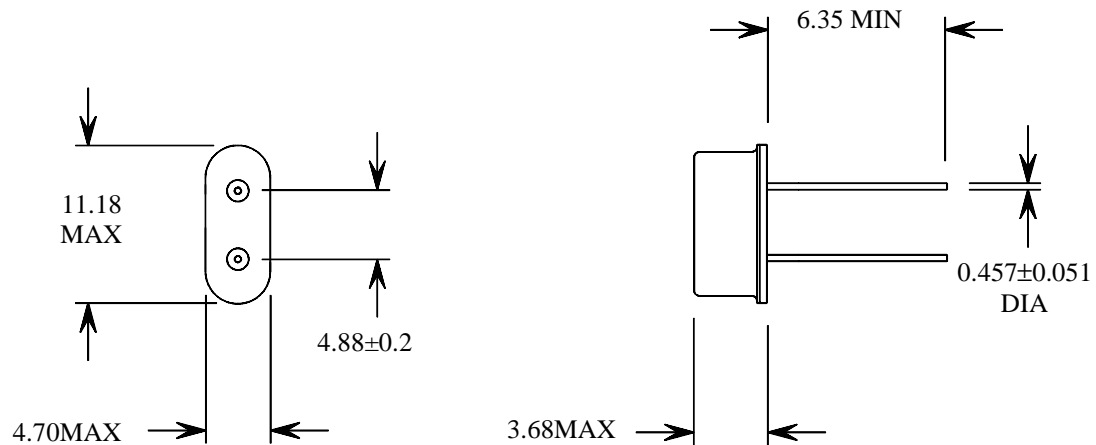
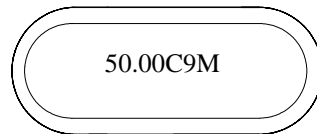


All Dimensions in mm.



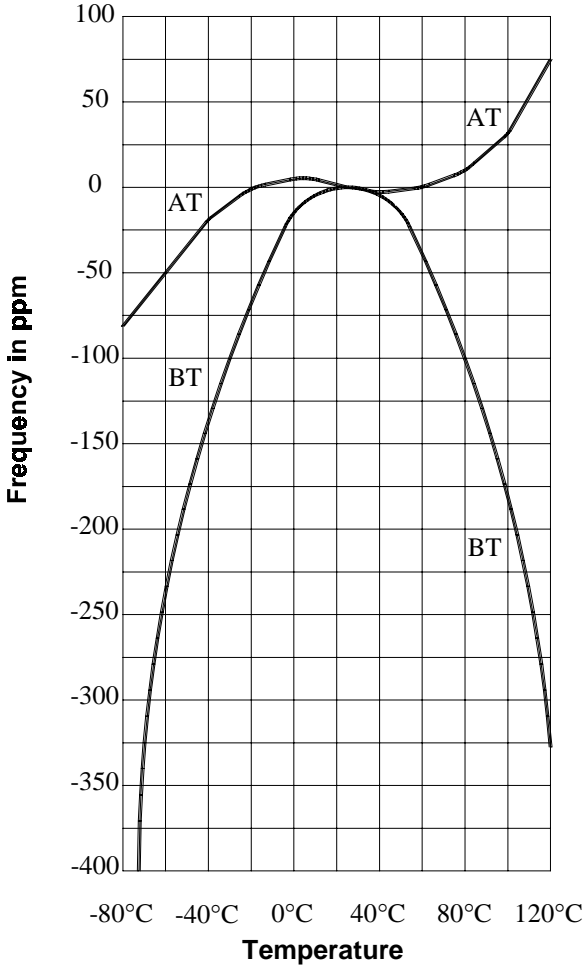
Marking Guide



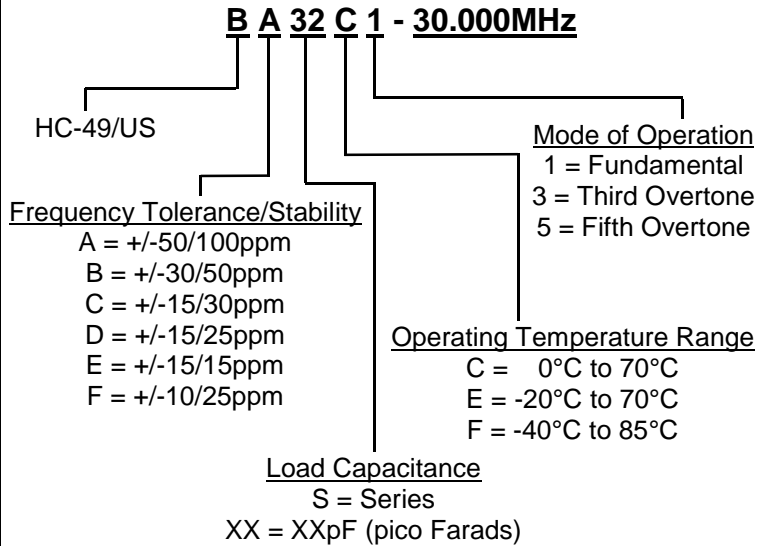
50.00 = 50.000MHz
 C = Caliber Electronics Inc.
 8M = Mfg. Date Code (Year / Month)

Electrical Specifications	
Frequency Range	2.500MHz to 125.000MHz
Frequency Tolerance/Stability	Other Combinations Available. Contact Factory for Custom Specifications.
“A” Option	±50/100ppm Max.
“B” Option	±30/50ppm Max.
“C” Option	±15/30ppm Max.
“D” Option	±15/25ppm Max.
“E” Option	±15/15ppm Max.
“F” Option	±10/25ppm Max.
Operating Temperature Range	
“C” Option	0°C to 70°C
“E” Option	-20°C to 70°C
“F” Option	-40°C to 85°C (A, B, C option only)
Storage Temperature Range	-55°C to 125°C
Load Capacitance	
“S” Option	Series
“XX” Option	10pF to 32pF
Mode of Operation	
Fundamental “1” Option	2.500MHz to 40.000MHz
Third Overtone “3” Option	28.000MHz to 75.000MHz
Fifth Overtone “5” Option	60.000MHz to 125.000MHz
Drive Level	1 mWatt Maximum, 100 uWatts Correlation

Theoretical Frequency-Temperature Curves of AT and BT Cut Crystals



Part Numbering Guide



Environmental and Mechanical Specifications

- Shock: MIL-STD-883C, Method 2002, Condition B
- Solderability: MIL-STD-883C, Method 2003.3
- Vibration: MIL-STD-883C, Method 2007, Condition A
- Fine Leak: MIL-STD-883C, Method 1014.5, Condition A2, <math><5 \times 10^{-8}</math> ATM cc/sec
- Gross Leak: MIL-STD-883C, Method 1014.5, Condition C
- Resistance to Solvents: MIL-STD-202F, Method 215B

Equivalent Series Resistance Versus Frequency

Frequency in MHZ	Maximum ESR	Frequency in MHZ	Maximum ESR
2.5000 to 4.9152	200	10.0000 to 14.7456	70
5.0000 to 5.0688	150	15.0000	60
6.0000 to 7.3728	120	15.3600 to 40.0000 Fundamental	50
8.0000 to 8.1920	90	32.0000 to 75.0000 Third Overtone	80
9.2160 to 9.8304	80	60.0000 to 125.000 Fifth Overtone	80

Configuration Options Available for HC-49/US Crystals

- I = Insulator Tab
 - L = Soldered Third Lead (Center of Can)
 - T = Trimmed Leads
- Options are designated at the end of the part number on your invoice, for example:

BA18C1-24.000MHz-I