



Features:

- Low Cost Crystal for CPUs
- High tolerance in temperature range
- Surface mount for auto assemble



Electrical Specifications

Holder Type	HC49/U SMD
Mode of Oscillation	Fundamental/3rd OT
Nominal Frequency Range	3.579545 to 64.000 MHz
Frequency Tolarence @ 25°C	±10 ppm (Std.)
Temperature Stability	see Table 1
Operating Temperature Range	see Table 1
Load Capaciance	10 pF to32 pF or Series
Equivalent Series Resistance	see Table 2
Drive Level	0.01 to 1mW
Shunt Capacitance	<7.0 pF
Insulation resistance	500M Ω min at 100Vdc ±15V
Aging	±5ppm max.
Crystal Cut	AT Strip (BT Strip Available)

To make your own Part Number or get a price quote, [click here](#).

Table 1

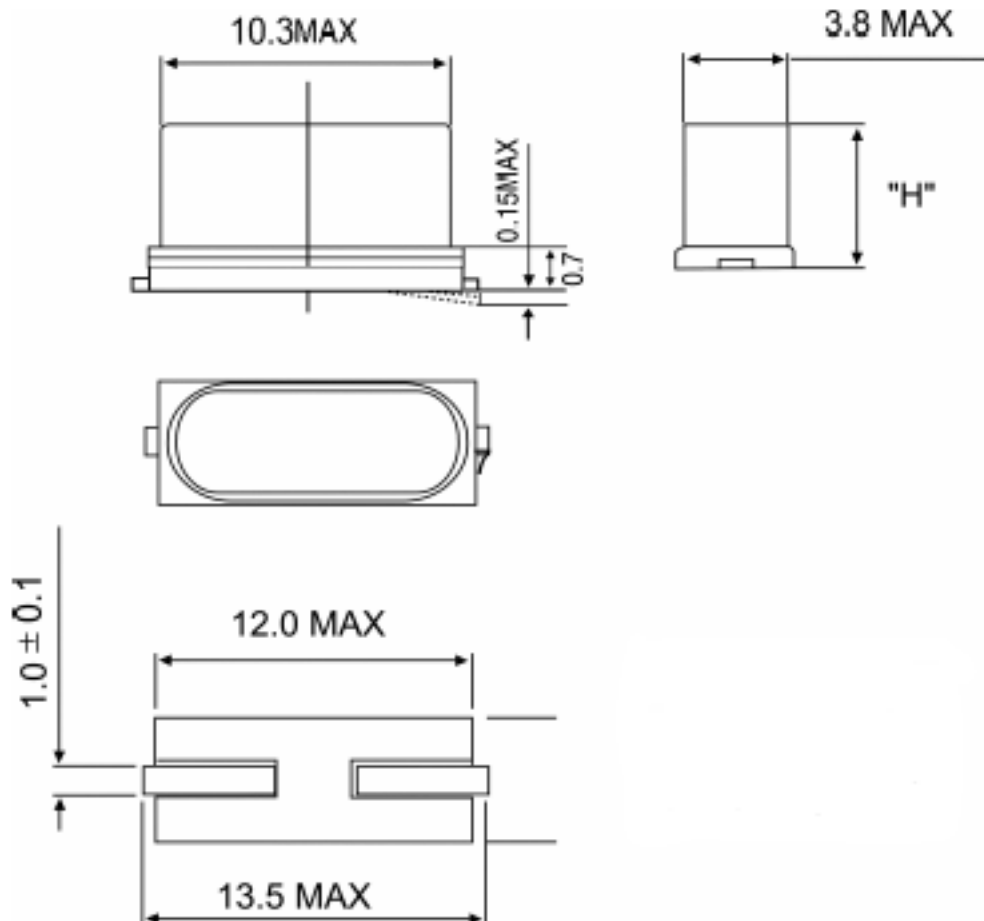
Temp. Range	Frequency Vs Temperature				
	Temperature Stability (ppm)				
	±10	±20	±30	±50	±100
0-50°C	✓	✓	✓	✓	✓
-10 +60°C		✓	✓	✓	✓
-20 +70°C			✓	✓	✓
-40 +85°C					✓

Table 2

Maximum Equivalent Series Resistance					
Frequency Range	ESR (Ω)	Mode	Frequency Range	ESR (Ω)	Mode
3.5 to 4.79 MHz	150 Ω	Fundamental	12.0 to 17.0 MHz	50 Ω	Fundamental
4.8 to 5.79 MHz	120 Ω	Fundamental	17.1 to 27.0 MHz	40 Ω	Fundamental
5.8 to 7.99 MHz	90 Ω	Fundamental	27.1 to 48.0 MHz	80 Ω	3rd OT
8.0 to 11.9 MHz	70 Ω	Fundamental	48.1 to 64.0 MHz	60 Ω	3rd OT

Mechanical Dimensions

HC-49/U SMD



Part Numbering

1	2	3	4&5	6	7	8
BFC	Frequency	Load (Cl)	Package	Stability @25°C	Stability over Temp	Operate Temp.
	14.31818	S= Series	5= HC49/U-SMD	0= ±100 ppm	0= ±100 ppm	A= 0-50°C
		10 pF thru 32 pF		5= ± 50 ppm	5= ±50 ppm	B= -10+60°C
				3= ± 30 ppm	3= ±30 ppm	C= -20+70°C
				2= ± 20 ppm	2= ±20 ppm	D= -40+85°C
				1= ± 10 ppm	1= ±10 ppm	

Example						
<u>B</u>	<u>F</u>	<u>C</u>	<u>1</u>	<u>4</u>	<u>3</u>	<u>-20-</u>
1	2	3	45	5	6	7
			<u>D1</u>			<u>5</u>
						<u>8</u>

[For Standard Frequency Abbreviations or for a quote, click here.](#)

Non Standard: Frequency Abbreviation will be assigned.

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