



Features:

- 1.8432 - 200.0 Mhz Frequency Range
- Low Cost, Low Profile CPU Crystal
- Thru-Hole Package
- 24-72 hour Quickturn Delivery Available
- AT- Cut Crystal
- Extended Temperature Range Available
- [Click Here For Printer Friendly PDF](#)
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RoHS Compliance Information:

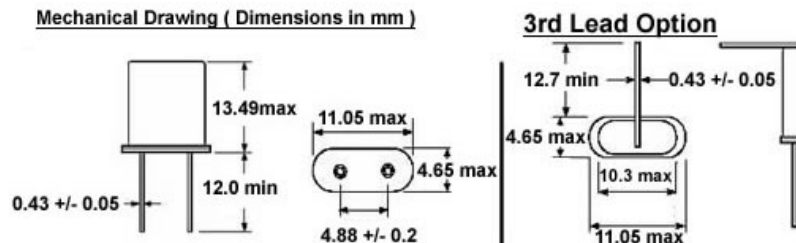
- Lead Plating Material Zn (99.3%) and Cu (0.65%)
- Can Composition Cu (64%), Zn (18%), Ni (18%)
- Can Plating Ni (100%)
- Body Composition Fe (100%)
- Base Lead Comp. Ni (29%), Co (17%), Fe (54%)
- Base Pin Comp. Cu (58%), Ni (19%), Zn (21%)
- [Click Here For Solder Reflow Profile](#)
- [Click Here For RoHS C of C](#)

Electrical Specifications	
Holder Types	HC-49/U
Mode Of Operation	Fundamental / 3rd OT / 5th OT / 7th OT
Frequency Range	1.8432 - 200.0 Mhz
Frequency Tolerance @ 25C	±50ppm, ±30ppm, ±20ppm, ±15ppm, ±10ppm
Temperature Stability	±100ppm, ±50ppm, ±25ppm, ±10ppm
Operating Temperature Range	0-70°C, -10+60°C, -20+70°C, -40+85°C
Load Capacitance (CL)	10pF to 32pF or Series
Equivalent Series Resistance	See Below
Drive Level	0.01 - 1mW
Shunt Capacitance	< 7.0pF
Insulation Resistance	500M Ohm min @ 100V DC ±15V
Aging	±5 ppm Maximum

Frequency Stability vs. Temperature							
Temp. Range	Temperature Stability (ppm)						
	± 5	±7	± 10	± 15	± 20	± 30	± 50
0-70°C	Available	Available	Available	Available	Available	Available	Available
-10+60°C	Not Available	Available	Available	Available	Available	Available	Available
-20+70°C	Not Available	Not Available	Available	Available	Available	Available	Available
-40+85°C	Not Available	Not Available	Not Available	Not Available	Not Available	Available	Available

Maximum Equivalent Series Resistance					
Frequency Range	ESR(Ohms)	Mode	Frequency Range	ESR (Ohms)	Mode
1.8 to 1.999 MHz	750	Fundamental	6.000 to 7.999 MHz	40	Fundamental
2.0 to 2.399 MHz	500	Fundamental	8.000 to 12.499 MHz	35	Fundamental
2.4 to 2.999 MHz	250	Fundamental	12.500 to 15.999 MHz	25	Fundamental
3.0 to 3.199 MHz	150	Fundamental	16.000 to 40.0 MHz	20	Fundamental
3.2 to 3.699 MHz	120	Fundamental	23.0 to 100.0 MHz	40	3rd OT
3.7 to 4.199 MHz	100	Fundamental	80.0 to 150 MHz	80	5th OT
4.200 to 5.999 MHz	70	Fundamental	110.0 to 200.0 MHz	120	7th OT

Part Numbering System							
BFC	Frequency	Load (Cl)	Package	Option	Stability @25°C	Stability/Temp	Operate Temp.
	14.31818	S= Series	1=HC49/U	SL=Sleeved	5= ± 50ppm	0= ±100ppm	A= 0-70°C
	See Freq Abrv	10pF-32pF	2=HC49/T	G=Gull Wing	3= ± 30ppm	5= ±50ppm	B= -10+60°C
				L=3rd Lead	2= ± 20ppm	3= ±30ppm	C= -20+70°C
					1= ± 10ppm	2= ±20ppm	D= -40+85°C
					6= ± 15ppm	1= ±10ppm	



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