

# BFC CRYSTAL SERIES HC-49U PACKAGE



### Features:

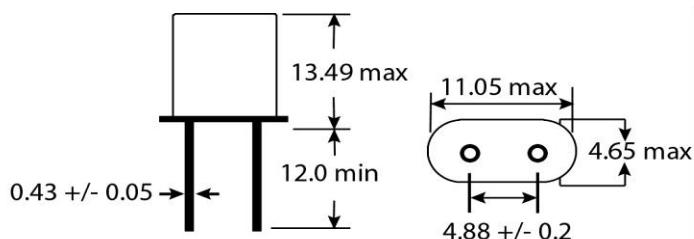
- Low Cost, Low Profile CPU Crystal
- HC-49U Thru-Hole Package
- Wide Frequency Range Available
- Gull Wing Package Available ( Suffix "G" )
- 24-72 hour Quickturn Delivery Available
- AT – Cut Crystal
- Extended Temperature Range Available
- **RoHS Compliant**

ELECTRICAL SPECIFICATIONS				
Holder Types	HC-49 / U			
Resonance Mode	Fundamental (1.0 to 40.0MHz)	3 <sup>rd</sup> Overtone ( 20.0 to 100.0 MHz)	5 <sup>th</sup> Overtone ( 80.0 to 150.0 MHz)	7 <sup>th</sup> Overtone (110.0 to 200.0 MHz)
Frequency Range	1.8432 – 200.0 Mhz			
Calibration Tolerance @ 25°C	± 50ppm, ± 30ppm, ± 20ppm, ± 15ppm, ± 10ppm			
Frequency Stability Ref @ 25°C	± 100ppm, ± 50ppm, ± 25ppm, ± 10ppm			
Operating Temperature Range	0 to 70°C, -10 to +60°C, -20 to +70°C, -40 to +85°C			
Load Capacitance (CL)	10pF to 32pF or Series			
Equivalent Series Resistance	See ESR Table			
Drive Level	0.01 mW Typical, 1mW Maximum			
Shunt Capacitance	7.0pF Maximum			
Insulation Resistance	500 Ohm min @ 100V DC ±15V			
Aging	± 5ppm Maximum			
Storage Temperature	-55 to +125°C			
Pullability (option)	May be specified in terms of frequency shift over a certain range of CL			

Part Numbering System								
Model	Frequency	Mode	Load (Cl)	Package	Option	Calibration Tolerance@25°C	Stability	Operate Temp.
BFC	143*	F=Fund	S = Series	1 = HC49/U	SL = Sleeved	5 = ± 50ppm	0 = 100ppm	A = 0~70°C
*Click Here for Standard Crystal Frequencies Abbreviations pg.	3 = 3rd	10-32			G = Gull Wing	3 = ± 30ppm	5 = 50ppm	B = -10~+60°C
	5 = 5th				L = 3 <sup>rd</sup> Lead	2 = ± 20ppm	3 = 30ppm	C = -20~+70°C
	7 = 7th					1 = ± 10ppm	2 = 20ppm	D = -40~+85°C
						6 = ± 15ppm	1 = 10ppm	

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	3 <sup>rd</sup> OT
3.7 to 4.199 MHz	100	Fundamental	80.0 to 150 MHz	80	5 <sup>th</sup> OT

Dimensions in mm



3rd Lead Option

