



HC49/U Crystal

BC1 - 13.5 x 11.5 x 4.7mm

The HC-49/U Crystal is an AT-cut thru hole type crystal, designed for use in computer peripheral applications. The HC49/U offers tolerance and stability from 10ppm to 100ppm and a temperature range to -40° to +85°C. The HC49/U is available with an optional gullwing design and mounting clip for SMD applications. Available in Fundamental and 3rd overtones.

Features

- Very compact and thin (13.5 x 11.5 x 4.7mm)
- Frequency range from 2MHz to 180MHz
- Perfect for Mobile Communication, Computer Peripherals and Radio Applications
- High precision and high reliability
- All Products meet the European Union Initiative (RoHS) for Lead (Pb) free content and requirements for re-flow profiling using lead-free solder.

Specifications:

Frequency Range	2.000 – 180.000 MHz
Frequency Tolerance @ 25°C.	±30ppm – Standard ±10ppm to ±100ppm – Available
Frequency Stability	±50ppm – Standard ±10ppm to ±100ppm - Available
Operating Temperature Range	-20° to +70°C. – Standard -40° to +85°C. - Available
Load Capacitance	10pF to 100pF or Series Resonant
Shunt Capacitance	7pF max.
Equivalent Series Resistance	See chart below
Aging	±3ppm/ 1 st year max.
Drive Level	1.0mW max.
Storage Temperature	-55° to +125°C.

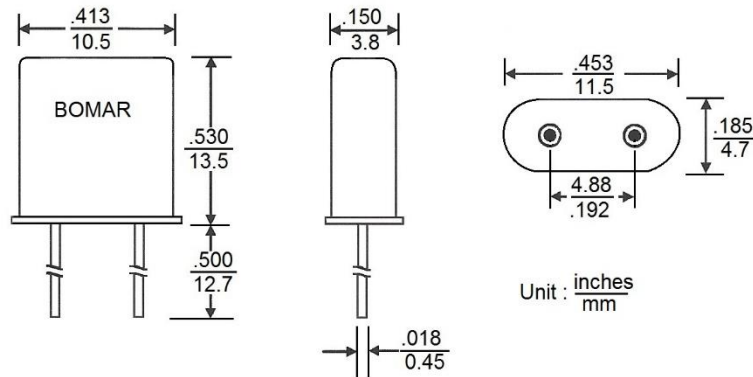
PO BOX 10, MIDDLESEX, NEW JERSEY 08846-0010 TEL. 732-356-7787 FAX 732-356-7362

www.bomarcystal.com sales@bomarcystal.com



Equivalent Series Resistance:

Frequency (MHz)	Mode	ESR (ohms) max.
2.000 – 3.000	Fundamental	300
3.001 – 3.500	Fundamental	150
3.501 – 4.000	Fundamental	100
4.001 – 5.000	Fundamental	80
5.001 – 6.000	Fundamental	60
6.001 – 8.000	Fundamental	50
8.001 – 13.000	Fundamental	35
13.001 – 48.000	Fundamental	25
24.000 – 30.000	Third overtone	50
30.001 – 80.000	Third overtone	40
80.001 – 180.000	Third overtone	40



Part Numbering

Sample BC1EFD120-10.000000

Series	Tolerance @ 25°C.	Stability over Temp. Range	Temperature Range	Mode	Load Capacitance	Options	Frequency (MHz)
BC1	A = 10ppm	A = 10ppm	D = -20° to +70°C.	1	Actual	A = Grnd lead	Actual
	E = 30ppm	E = 30ppm	I = -40° to +85°C.	3	Load or		Frequency
	F = 50ppm	F = 50ppm			Series		

Call us for additional options

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