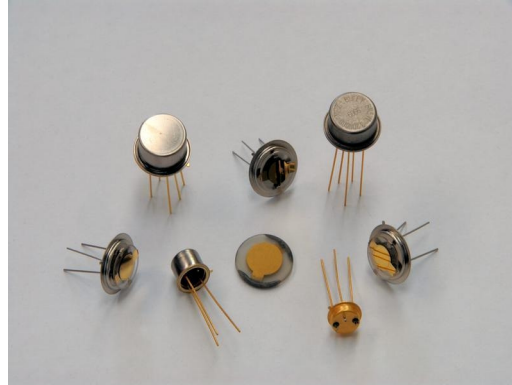


# AT Cut TO Style Crystals

## Description

Unmatched performance during extreme shock and vibration combined with superior aging and high reliability make this crystal the choice for AT cut designs in aerospace, defense, and commercial systems.



## Features:

- Available in frequencies from 1.0 MHz to 150 MHz
- +/- 15 ppm available over temp.
- Exceptional Aging Characteristics
- 4-Point mount for ruggedized designs
- Extremely Shock resistant
- Designed for high-temp reflow
- RoHS compliant available
- Coldweld Vacuum Sealed Package

## Frequency Range, Operating Temperature, and Frequency Stability:

Frequency Range	Operating Temperature	Product Code	Temperature Stability (includes calibrations at 25°C)	Product Code
1.0 MHz to 150 MHz	0 to +70°C	A	±15 ppm	A
	-20 to +70°C	B	± 20 ppm	B
	-40 to +70°C	C	± 30 ppm	C
	-55 +105°C	D	± 50 ppm	D

\*\* Note: Not all combinations of temperature ranges and frequency stability available. Other temperature ranges and stabilities are available. For specific details consult factory.

Bliley Type	Frequency Range (MHz)	Crystal Cut (Mode)	Max Series Resistance (Ω)	Shunt Capacitance (Co)	Industry Package Designator	Mil-H-10056 Package Designator
BK2W	1 – 2	Fundamental	150	3 to 5 pf	N/A	HC-40/U
	2 – 3		80			
	3 – 6		25			
BK5W	2 – 3		250			
	3 – 4		100			
	4 – 5		50			
	5 – 6		30			
	6 – 8		20			
BK3	8 – 25		15			
	7 – 10		40			
	10 – 25	25				
	20 – 100	30	TO-5	HC-35/U		
80 – 150	60					
		3 <sup>rd</sup>				
		5 <sup>th</sup>				

## Aging

Frequency	Timeframe	Aging
All	1 <sup>st</sup> Month	± 0.5ppm
	Per Year	± 1.0ppm

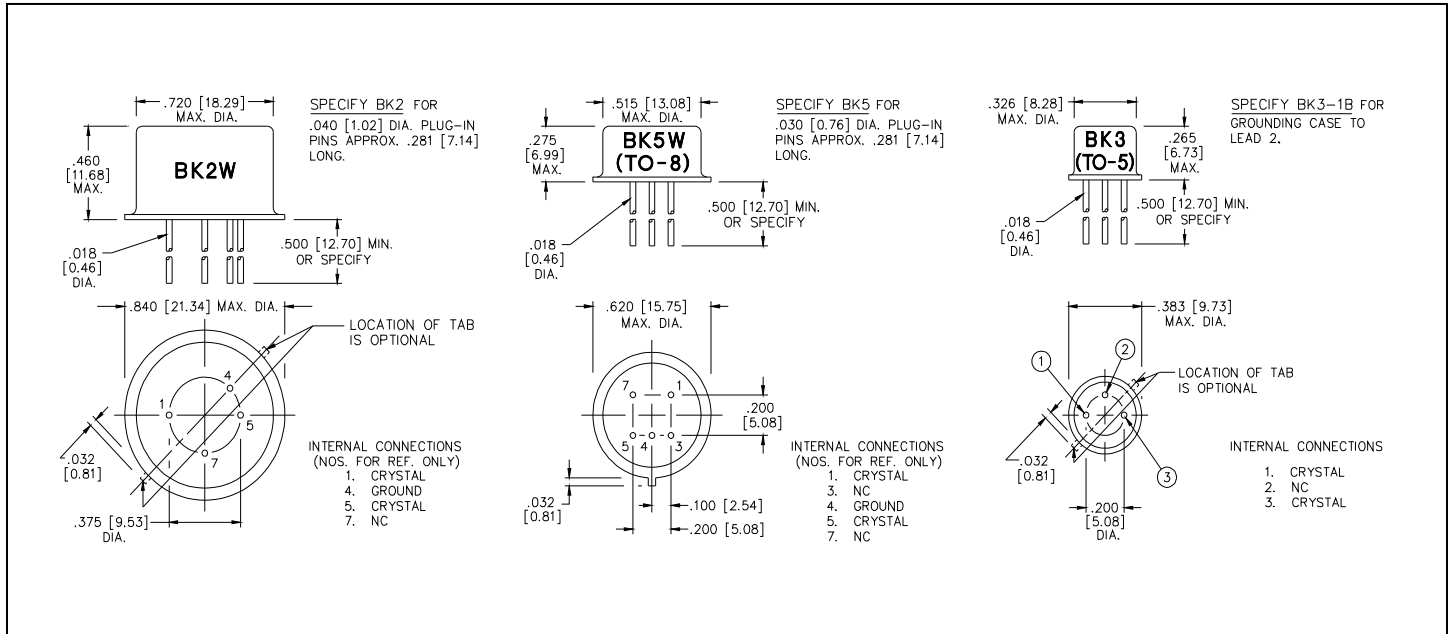
# AT Cut TO Style Crystals

## Drive Level:

Frequency	Drive Level ( mW )
All	0.5

## Environmental:

Storage Temperature	-55 to +125 °C
Vibration	20G from 10 to 2000Hz
Shock	150G for 7 mSec



## Ordering Options:

Package Style	RoHs	Operating Temp.	Temperature Stability	Shunt Capacitance (pF)	-	Operating Frequency** @ Room Temperature (MHz)
BK2	G	A	A	3 to 5	-	xxxMxx
BK5		B	B			xxMxxxxxx
BK3		C	C			xxMxxxxxx
		D	D			xxMxxxxxx

**ATBK5 C B 3 - 23M9875**

\* Trailing zeros will be omitted in final part number

**This example part number has the following specs:**

**HC/37U Package, Non-RHos, Operating Temperature -20 to +70C, ±20 ppm frequency stability with a shunt capacitance of 3.0pf at an operating frequency of 23.9875000MHz**