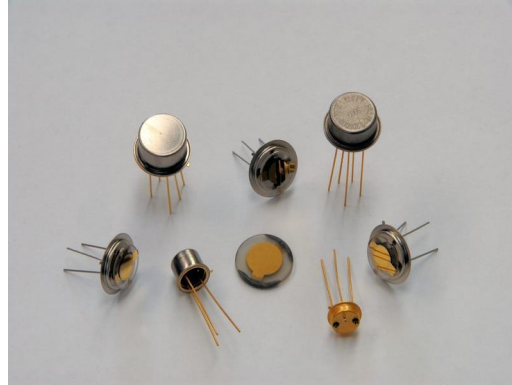


# SC Cut TO Style Crystals

## Description

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



## Features:

- Available in frequencies from 3.0 MHz to 150 MHz
- Exceptional Aging Characteristics (as low as  $\pm 1.25$ ppm for 20-years)
- 4-Point mount for ruggedized designs
- Extremely Shock resistant
- Designed for high-temp reflow
- RoHS compliant available
- Coldweld Vacuum Sealed Package

## Frequency Range and Frequency Turning Point:

Frequency Range	Turning Point $\pm 5^{\circ}\text{C}$	Product Code
3.0 MHz to 150 MHz	+70 $^{\circ}\text{C}$	A
	+80 $^{\circ}\text{C}$	B
	+90 $^{\circ}\text{C}$	C

\*\* Note: Other turning points and tolerances are available. For specific details consult factory.

Bliley Type	Frequency Range (MHz)	Crystal Cut (Mode)	Max Series Resistance ( $\Omega$ )	Shunt Capacitance (Co)	Industry Package Designator	Mil-H-10056 Package Designator
BK2W	3 – 6	3 <sup>rd</sup> (Product Code A)	120 - 140	3 to 5 pf	N/A	HC-40/U
	6 – 8		100 - 120			
	8 – 12		60 - 80			
BK5W	5 – 6		120 – 140		TO-8	HC-37/U
	6 – 8		100 – 120			
	8 – 16		60 – 80			
	16 – 30		40 – 60			
BK3	10 – 13		140 – 160		TO-5	HC-35/U
	20 – 30		60 – 80			
	30 – 100		60			
	80 – 150		100 - 140			

## Aging (Typical):

Frequency (MHz)	Aging (Per Year after 30 days)		
	BK2W Package	BK2W Package	BK3
All Ranges	0.03ppm	0.05ppm	---
10 to 30	---	---	0.10
30 to 150	---	---	0.30

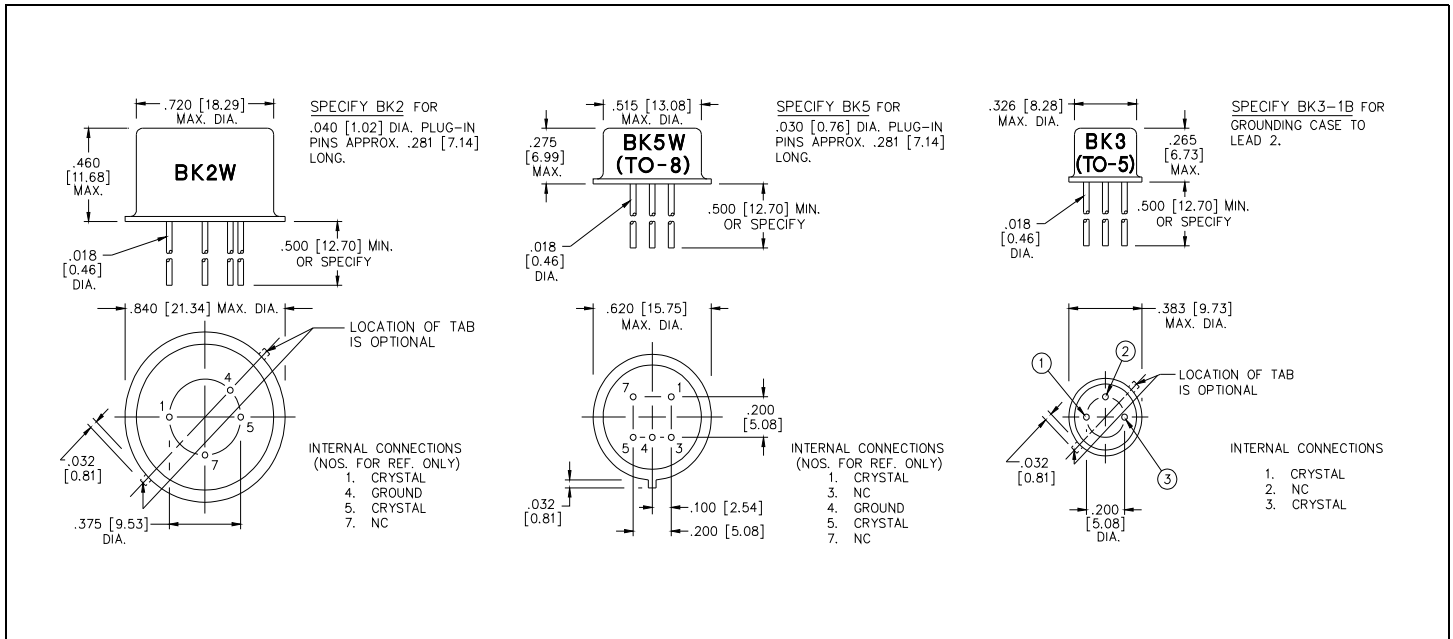
# SC Cut TO Style Crystals

## Drive Level:

Frequency	Drive Level ( mW )
All	0.1

## Environmental:

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



## Ordering Options:

Package Style	RoHs	Turning Point	Crystal Cut Mode	Shunt Capacitance (pF)	-	Operating Frequency** @ Turning Point (MHz)
BK2	G	A	A	3 to 5	-	xxxMxx
BK5		B	B			xxMxxxxxx
BK3		C				xxMxxxxxx

SC BK5

C

B

3

-

100M500

\* Trailing zeros will be omitted in final part number

This example part number has the following specs:

HC/37U Package, Non-RoHs, Turning Point, 90° C, 5<sup>th</sup> Overtone, shunt capacitance of 3.0pf at an operating frequency of 100.5000MHz