

## BQ (T, U) series Quartz CRYSTALS



### AT-CUT CRYSTAL, HC-49/T, HC-49/U, Style Holders

- Thru Hole package
- Available in 2 different heights: 11.1mm (HC-49/T), 13.46mm (HC-49/U)
- Frequency stability from  $\pm 10$ ppm to  $\pm 50$ ppm
- Bulk or Tape & Reel

### ELECTRICAL SPECIFICATIONS

Frequency Range	1.8 to 160.0MHz
Operating Temp. Range	-20°C to +70°C (STD)
Frequency Tolerance	@25°C Vs Temp. Range
	$\pm 10, \pm 15, \pm 20, \pm 30, \pm 50$ ppm
Aging @25°C	$\pm 5$ ppm/year max.
Load Capacitance	16pF, 18pF, 20pF, 30pF
Drive Level	.01 to 2000mW
Shunt Capacitance	7.0pF max.
Insulation Resistance	500 M $\Omega$ min @100Vdc

### EQUIVALENT SERIES RESISTANCE & MODE

Frequency Range	ESR ( $\Omega$ )	Mode
1.8 ~ 2.9 MHz	800 $\Omega$ max	Fundamental
3.0 ~ 3.4 MHz	300 $\Omega$ max	Fundamental
3.5 ~ 4.9 MHz	150 $\Omega$ max	Fundamental
5.0 ~ 6.9 MHz	75 $\Omega$ max	Fundamental
7.0 ~ 9.9 MHz	50 $\Omega$ max	Fundamental
10.0 ~ 20.0 MHz	30 $\Omega$ max	Fundamental
20.1 ~ 27.0 MHz	30/50 $\Omega$ max	3rd Overtone
27.1 ~ 75.0 MHz	100 $\Omega$ max	3rd Overtone

