



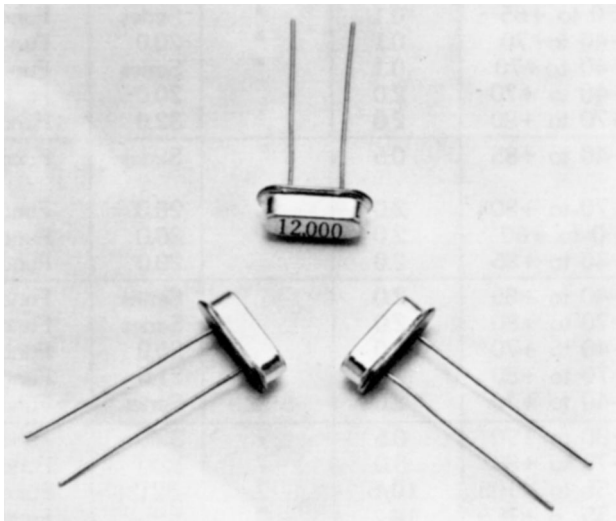
HC49S/RESISTANCE WELD - LOW PROFILE CRYSTAL

The BREL HC49S in a resistance weld package, features the latest crystal technology in the industry, which utilizes energy trapping principles. This technology is called "AT" Cut strip resonator crystals, and allows for a dramatic reduction in crystal packaging over existing standard designs.

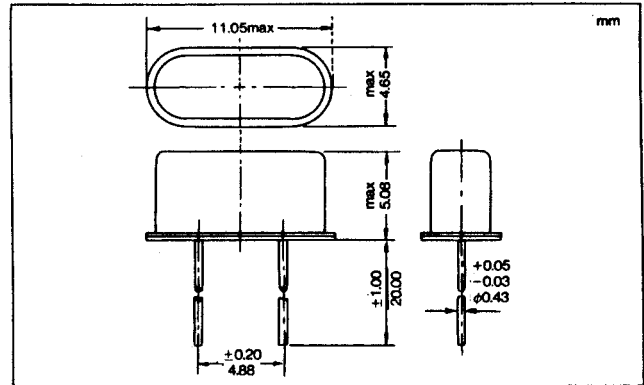
The BREL HC49S has the same pin spacing as the HC18/49U, yet offers a reduction in can height, better shock and vibration characteristics and overall improved reliability. The BREL HC49S also eliminates

the need for top leads used for grounding or holding the crystal in PC boards resulting in cost savings and reduction of board space.

Due to the miniaturization of many oscillator and filter components, the crystal size has become the dominant item in area layout requirements. This chart, coupled with the information on crystal can size below, enables the engineer to quickly determine the size crystal can available vs. a specific frequency.



DIMENSIONS



SPECIFICATIONS

Frequency Range	3.579545 MHz-20.000MHz
Frequency Tolerance	±50 ppm @ 25°C
Frequency Stability	±100 ppm from 0°C to+70°C(ref..25°C)
Operating Temperature Range	-10°C to+70°C(STD)
Aging	5 ppm/Year
Drive level	1mW
ESR	As per listed values

FREQUENCY RANGE/RESISTANCE

Frequency Range	ESR Max
3.579545 MHz- 5.999 MHz	120 ohms
6.000000 MHz- 7.999 MHz	70 ohms
8.000000 MHz- 9.999 MHz	60 ohms
10.000000 MHz-20.000 MHz	50 ohms

All specifications subject to change without notice.