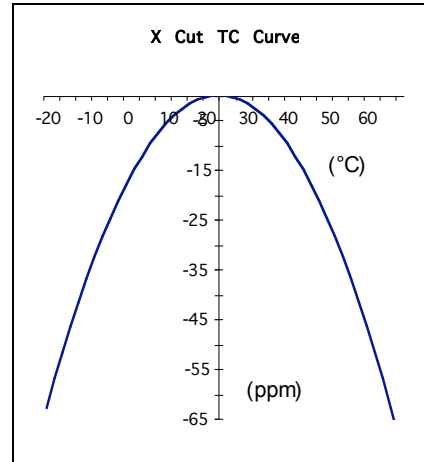




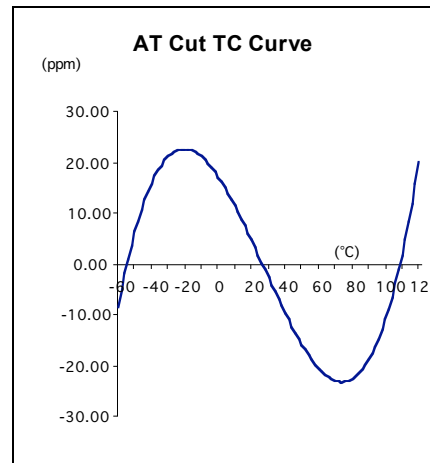
INFICON EDC Inc. *Quality Quartz Crystals and Oscillators*

## CRYSTAL CUTS -

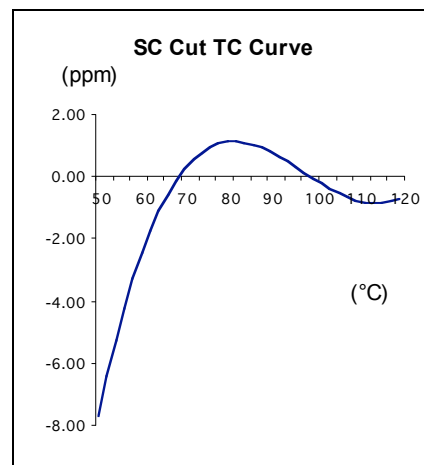
**X-Cut:** The X-Cut is used for frequencies below 1 Megahertz (MHz). The most common device is the 32.768 Kilohertz (KHz) watch crystal that is used in all kinds of timing applications. The turnover temperature of the X-Cut is designed to be near room temperature.



**AT-Cut:** The AT-Cut is the workhorse of the field. It is the most common cut used above 1 MHz. The AT-Cut is economical combined with having good performance characteristics across a wide variety of environmental conditions. The inflection temperature of the AT-Cut is near room temperature. The upper and lower turnover points are typically separated by 50 ~ 150 °C.



**SC-Cut:** The SC-Cut is frequently used in higher stability applications such as ovenized oscillators. The SC-Cut is less sensitive to drive level changes, starts easily and is very frequency stable over narrow ranges of temperature. The inflection temperature of the SC-Cut is typically 92 ~ 100 °C. The upper and lower turnover points are typically separated by 2 ~ 50 °C.



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