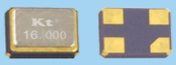
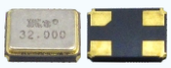
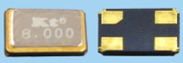
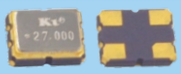
Kingtronics® Kt®

QUARTZ CRYSTALS AND OSCILLATORS

Product photo	Kingtronics P/N	Quartz Crystal	Size	Frequency Range
	QKT-HC49U	Leaded Quartz Crystal	11.05x4.65x13.46mm	1.8432MHz to 200.000MHz
	QKT-HC49S	Leaded Quartz Crystal	11.05x4.65mx3.38mm	3.200MHz to 100.000 MHz
	QKT-HC49SMD	SMD Quartz Crystal	12.2x4.5x4.0mm	3.200MHz to 100.000 MHz
	QKT-1612SMD	SMD Quartz Crystal	1.6x1.2mm	24.000 MHz to 48.000 MHz
	QKT-2016SMD	SMD Quartz Crystal	2.0x1.6mm	20.000 MHz to 54.000 MHz
	QKT-2520SMD	SMD Quartz Crystal	2.5x2.0mm	12.000 MHz to 54.000 MHz
	QKT-3225SMD	SMD Quartz Crystal	3.2x2.5mm	12.000 MHz to 54.000 MHz
	QKT-5032SMD	SMD Quartz Crystal	5.0×3.2mm	8.000 MHz to 150.0000 MHz
	QKT-OSC2520	SMD Oscillator	2.5x2.0mm	1.000MHz to 64.000 MHz
	QKT-OSC3225	SMD Oscillator	3.2x2.5mm	1.000MHz to 125.000 MHz
	QKT-OSC5032	SMD Oscillator	5.0x3.2mm	1.000MHz to 125.000 MHz
	QKT-OSC7050	SMD Oscillator	7.0x5.0mm	1.000MHz to 150.000 MHz
	QKT-3215SMD	SMD Quartz Crystal	3.2x1.5mm	32.768 KHz
	QKT-7015SMD	SMD Quartz Crystal	7.0x1.5mm	32.768KHz
	QKT-2060DIP	Tuning Fork Crystal	Tuning Fork 2060	30KHz to 200KHz
	QKT-3080DIP	Tuning Fork Crystal	Tuning Fork 3080	30KHz to 200KHz

QUARTZ CRYSTALS AND OSCILLATORS **APPLICATIONS**

The passive quartz crystal are ideally suited designed for Bluetooth wireless communication sets, HDD, DSN, PDA, GPS, Digital Tuner, Wireless LAN and mobile phones.

The Active SMD Oscillators are ideally suited for disc-drives, NB, Networking, GPS/Navigation, Bluetooth, Ethernet, ADSL, VDSL, Fiber channel hand-held electronics products.

ABOUT QUARTZ CRYSTALS AND OSCILLATORS

Electronic-grade quartz crystal is single-crystal silica which has properties that make it uniquely useful for accurate frequency controls, timers, and filters in electronic circuits. These devices are utilized for a wide variety of electronic applications in communications equipment, computers, aerospace hardware, instruments for commercial use.

A crystal oscillator is an electronic oscillator circuit that uses the mechanical resonance of a vibrating crystal of piezoelectric material to create an electrical signal with a very precise frequency. This frequency is commonly used to keep track of time (as in quartz wristwatches), to provide a stable clock signal for digital integrated circuits, and to stabilize frequencies for radio transmitters and receivers. The most common type of piezoelectric resonator used is the quartz crystal, so oscillator circuits designed around them became known as "crystal oscillators".

Quartz crystals are manufactured for frequencies from a few tens of kilohertz to tens of megahertz. More than two billion (2×109) crystals are manufactured annually. Most are small devices for consumer devices such as wristwatches, clocks, radios, computers, and cellphones. Quartz crystals are also found inside test and measurement equipment, such as counters, signal generators, and oscilloscopes.

Notes : Specification are subject to change without notice. Please refer to our website : www.kingtronics.com