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"e-news" The ECS Newsletter

Frequency Control Solutions That Meet The Needs Of The Future . . . Today!

Sixth Edition, August/September, 2001

This E-Letter is devoted to Bluetooth: Enabling NexGen Wireless Apps

What is Bluetooth?

Are you part of the Bluetooth Revolution yet? If not, chances are you soon will be.

Bluetooth technology and the opportunities it presents promises to rewrite the book on wireless communications, both data and voice.

Bluetooth is a layered set of wireless interfaces that operate over the 2.4 GHz ISM frequency band. Bluetooth offers users and developers a single communication platform that supports a more complete range of applications accessing the network via PDA's, voice headsets and cellular phones.

Our clock oscillators are designed to meet the jitter requirements and phase noise demands of Bluetooth. The lower power supply needed to drive these clocks allow for low current consumption that saves battery life.



SMD - [ECS-327SMO](#)



SMD - [ECS-3953M](#)

Contact your local representative, authorized distributor or contact us direct to discuss your needs.

Established in 1980, ECS, Inc, offers a wide variety of time and frequency control devices for computer logic, radio, telecommunications and consumer electronics including quartz crystals and clock oscillators, filters, ceramics resonators, SAW devices for through-hole and SMT platforms.

This standard is easy to integrate into next generation consumer electronics, communication and computing devices. This enabling technology eliminates the physical cabling among digital and communication products, and enables the emergence of wireless, ad-hoc networks for casual use in home and office. Where the Infrared Association (IrDA) standards focused on very close-distance, line of sight (actually directed)

Microprocessor Crystals: These crystals meet or exceed the miniaturization and portability requirements required to fulfill the needs of Bluetooth. They are low profile, with unparalleled reliability and are excellent for high-density surface mounting.



SMD - [CSM-8A](#)



SMD - [ECX-64](#)

Where is the market headed?

- In-Stat, a leading market analysis firm, projects that Bluetooth wireless chips will go from 0 to 260 million units in four years.
- Bluetooth technology at first will be used in high-end cellular and PCS standard handsets, and notebook PC's that are geared toward the corporate market or business user.
- The second Bluetooth wave will engulf lower-cost mobile phones and portable devices, digital cameras, printers, automotive, home networking, and a variety of vertical markets, resulting in a sharp rise in unit volume.
- By 2006, the market opportunity for radio and baseband solutions will surpass \$3 Billion.

32.768Khz Crystals: ECS offers these crystals in thru-hole and SMD packaging depending on the needs of the customer. This very popular frequency is used to generate and display real time in seconds, minutes, hours and days.



THRU-HOLE - [ECS-1x5](#) or [ECS-2x6](#)



SMD - [ECX-306](#) or [ECX-3TA](#)

interfaces, Bluetooth offers a broader range of services that are in line with the convergence of information transfer into a single point of interface.

Bluetooth communication takes place over a 10-meter radius, using FM radio signals. Components needed for Bluetooth including frequency-controlling crystal oscillators are size critical, and must consume very little energy.

What makes Bluetooth so exciting?

- Very low price model
- Ease of use
- Secure transmissions

ECS's Position??

ECS's was an early adapter of Bluetooth technology and has been shipping its quartz crystals to Bluetooth specifications for some time. **See many of our recommendations for your designs throughout this Newsletter.**

The Bluetooth products featured here are fully compliant with stability, tolerance and pullability specifications. Pricing is very competitive and samples of common frequencies are available from stock to 2 weeks.

Outlook?

ECS projects demand for Bluetooth crystals and oscillators in ever-smaller SMD packages will continue, with footprints diminishing from 7x5mm today, through 6x3.5mm, through 5x3.2mm, to 3.2x2.5mm as the market demands.

ECS will continue to track Bluetooth crystals and crystal oscillators as a leading manufacturer of state of the art frequency control products for all Bluetooth applications.

Excess Inventory>>>>>that needs to find a home

Due to over zealous forecasts by OEM's and EMS companies, ECS has been blessed with some excess inventory.

This product can be procured at very attractive prices. Please contact an ECS sales representative for a quote.

The list of excess inventory is [available on our website](#).

Lead-times>>>>Where do we go from here?

A table showing showing the latest in lead-times is [available on our website](#). Forecasted trends are for the next 2 quarters.

Archived Newsletters

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